TIMBER RIDGE FILING 2 SAND CREEK MITIGATION

STREAM MITIGATION PLANS

CONCEPTUAL DESIGN - NOT FOR CONSTRUCTION AUGUST, 2022

> Provide final for construction

PROJECT DESCRIPTION

THE PURPOSE OF THE TIMBER RIDGE SAND CREEK MITIGATION PROJECT IS TO MITIGATE IMPACTS TO SAND CREEK FROM THE ADJACENT DEVELOPMENT. THE PRIMARY MODE OF UPLIFT IS BY IMPROVEMENTS TO THE REACH RIPARIAN VEGETATION.

VICINITY MAP

IGINAL SHEET - ANSI B









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Client/Project CORE CONSULTANTS, INC TIMBER RIDGE SAND CREEK MITIGATION

COLORADO SPRINGS, CO



COVER

Project No.

2021009009

1" = 100' Horizontal Scale

Sheet 1 of 4

GENERAL NOTES:

DRIGINAL SHEET - ANSLR

- 1. The contractor will supply all plants in guantities sufficient to complete the work shown on the plan. All plant material should meet the specifications of the American Standards for Nursery Stock (latest edition) as set forth by the American Association of Nurserymen.
- 2. All populations of Colorado List A and B noxious weeds found in or within 100 feet of the project area will be treated with the appropriate herbicide(s) prior to and throughout the duration of construction. Always follow all label recommendations, precautions and restrictions when using any herbicide. Read and comply with all herbicide labels, organic or nonorganic, for application rates, mixing instructions, protective equipment, re-entry period, grazing or harvest restrictions and other safety information. Herbicides should be applied only by responsible, licensed applicators.
- 3. The contractor will provide submittals for containerized plant material (wetland plugs and shrubs), all trees, each seed mix, mulch, and tackifier. Submittals for live plant material and the seed mixes will include the scientific names of each species, including variety and subspecies (as-applicable). Additionally, the seed mix submittals will include the lot number, test date, seed type and variety, purity and germination percentage, crop seed percentage, inert matter percentage, weed seed percentage, noxious weeds by name and number per pound.
- All best management practices (BMPs) used shall be selected, installed, implemented, and 4 maintained according to appropriate engineering, hydrologic and pollution control practices.
- The use of chemicals such as soil stabilizers, dust palliatives, herbicides, growth inhibitors, 5. fertilizers, deicing salts, etc., shall be in accordance with the manufacturer's recommended application rates, frequency, and instructions. These chemicals shall not be used, stored, or stockpiled within 50 horizontal feet of the creek or other aquatic habitats.
- 6. Construction equipment, fuels, lubricants, and other petroleum distillates shall not be stored or stockpiled within 50 horizontal feet of the creek or other aquatic habitats. Equipment fueling and servicing shall occur only within approved designated areas.
- Planting plan, species, distribution, and quantity to be confirmed with a qualified ecologist prior 7. to construction.

LIVE WILLOW STAKE HARVEST AND INSTALLATION NOTES:

- 1. Sandbar willow (Salix exigua) stakes can be harvested from within the limits of construction or other legally accessible sites nearby while dormant (Nov - after leaf drop to April - prior to bud break). All areas for harvest shall be approved by the ecologist prior to cutting and the ecologist will oversee the willow stake harvest operation.
- When harvesting outside of the limits of construction, remove no more than 20% of the 2. branches from any single willow clump, do not remove more than 30% of the overall canopy cover from any willow stand and harvest stems evenly through the stand.
- 3. Stakes shall be approximately 3-feet in length and ½ to 1 inch diameter at the base. The stem shall be pruned of all branches with the bottom end cut at a 45-degree angle and the top end cut at a 90-degree angle.
- As stakes are cut, the bottom end shall be immediately placed into water. Once harvested, 4. stakes shall be completely submerged in cold water--for at least 72 hours, but not more than 14 days, prior to planting. The storage location shall be shaded to maintain a cold-water temperature. The stakes will be kept wet until placed into the ground and will not be stored out of water for more than 10 minutes prior to planting.
- Stake spacing shall be 2.0-foot (A=2.0-foot) on center, located in the Riparian Zone. Stakes shall 5. be installed to a depth of 24-inches ensuring that the bottom end is placed in or at the top of the water table.
- Backfill willow stake holes to remove any air pockets and trim all installed stakes to no more 6. than 8 inches above the ground surface.

CONTAINERIZED PLANT MATERIAL INSTALLATION NOTES:

- 1. All containerized plant material must be inspected for health, size, species, and quantity upon arrival onsite, notify the ecologist at least 3 business days prior to delivery. Alternatively, local nursery inspection of plants may be arranged prior to delivery. Please notify the ecologist at least 3 business days prior to scheduled delivery.
- 2. All plant material should be watered prior to transport and covered during transport. Water plant material once it arrives onsite and store in a shaded location or in the Sand Creek channel if water levels allow.
- 3. The contractor will mark all planting locations for adjustment and approval by the ecologist prior to installation.
- When installing trees and shrubs, dig the hole 1.5 to 2 times the width of the rootball.
- Tree and shrubs planted in the Riparian Zone shall be deep planted, when necessary and as 5. plant material size allows to ensure placement of the rootball in the capillary fringe (moist soil) immediately above the water table. Trees and shrubs can be planted up to 1/3 to 1/2 of the above ground height at the time of planting.
- Create watering dishes for all trees and shrubs (except willow stakes). All 60 cubic inch (ci) shrubs and 5-gallon trees, watering dishes shall be 3 inches deep by 2 feet in diameter.
- Once planted, all trees and shrubs shall be watered so that the entire rootball and soil around the rootball are inundated. Water thoroughly on the day of planting.
- Trees and shrubs will be watered for the first growing season that starts at the date of installation. The contractor will provide a work plan that details how water volume is measured or estimated to ensure each plant receives the specified quantity.
- Large trees (2" caliper B&B) shall be watered two times a month at a rate of 10 gallons for each diameter (diameter at breast height [DBH]) inch of the large tree for the months of May, June, September, and October; four times a month at a rate of 10 gallons for each diameter (DBH) inch of the large tree for the months of July and August; and one time per month at a rate of 10 gallons for each diameter (DBH) inch of the large tree for the months of October through April.
- 10. Small trees (5-gallon) and shrubs (60-ci) shall be watered two times a month at a rate of 10 gallons for each small tree and shrub for the months of May, June, September, and October; four times a month at rate of 10 gallons for each small tree and shrub for the months of July and August; and one time per month at rate of 10 gallons for each small tree and shrub for the months of October through April.

RIPARIAN PLANTINGS:

ZONE B (RIPARIAN)			
COMMON NAME	SIZE	SPACING (
Golden currant	60 ci	3'		
American plu,	60 ci	3'		
Chokecherry	60 ci	3'		
Peachleaf Willow	5-gal	10'		
Live Willow Stakes				
Sandbar Willow	3-foot Stake	2'		
	ZONE B (RIPARIAN COMMON NAME Golden currant American plu, Chokecherry Peachleaf Willow Live Willow Stake Sandbar Willow	ZONE B (RIPARIAN)COMMON NAMESIZEGolden currant60 ciAmerican plu,60 ciChokecherry60 ciPeachleaf Willow5-galLive Willow StakesSandbar Willow3-foot Stake		





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Client/Project CORE CONSULTANTS, INC TIMBER RIDGE SAND CREEK MITIGATION

COLORADO SPRINGS, CO

Project Milestone
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Sheet Name

NOTES

Project No

2021009009

1" = 100' Horizontal Scale

Sheet 2 of 4





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Project Milestone CONCEPTUAL DESIGN - NOT FOR CONSTRUCTION

Sheet Name NOTES (2)

2021009009

Project No

1" = 100' Horizontal Scale

Sheet 3 of 4

STAKES AFTER INSTALLATION. 2 TO 5 BUD SCARS SHALL BE ABOVE GROUND. REMOVE ADDITIONAL



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Sheet Name PLAN (1)

Project No.

2021009009

1" = 50' Horizontal Scale

Sheet 4 of 4

TIMBER RIDGE FILING 1 WETLAND MITIGATION

WETLAND MITIGATION PLANS

CONCEPTUAL DESIGN - NOT FOR CONSTRUCTION AUGUST, 2022

PROJECT DESCRIPTION

THE PURPOSE OF THE PROJECT IS TO DEVELOP PLANS FOR THE COMPENSATORY MITIGATION PLAN FOR TIMBER RIDGE FILING 1 PREPARED BY CORE CONSULTANTS. THIS PLAN WAS PREPARED TO COMPENSATE FOR THE LOSS OF 0.44-ACRES OF WETLAND HABITAT THROUGH THE ESTABLISHMENT OF NEW EMERGENT WETLANDS WITHIN THE PROJECT.

VICINITY MAP

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Client/Project CORE CONSULTANTS, INC TIMBER RIDGE WETLAND MITIGATION

COLORADO SPRINGS, CO

Project Milestone CONCEPTUAL DESIGN - NOT FOR CONSTRUCTION

Sheet Name COVER_WETLAND - COVER

2021009009 1" = 100'

Project No.

Sheet $1 \quad \text{of} \quad 5$

Horizontal Scale



GENERAL NOTES:

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- 2. All populations of Colorado List A and B noxious weeds found in or within 100 feet of the project area will be treated with the appropriate herbicide(s) prior to and throughout the duration of construction. Always follow all label recommendations, precautions and restrictions when using any herbicide. Read and comply with all herbicide labels, organic or nonorganic, for application rates, mixing instructions, protective equipment, re-entry period, grazing or harvest restrictions and other safety information. Herbicides should be applied only by responsible, licensed applicators.
- 3. The contractor will provide submittals for containerized plant material (wetland plugs and shrubs), all trees, each seed mix, mulch, and tackifier. Submittals for live plant material and the seed mixes will include the scientific names of each species, including variety and subspecies (as-applicable). Additionally, the seed mix submittals will include the lot number, test date, seed type and variety, purity and germination percentage, crop seed percentage, inert matter percentage, weed seed percentage, noxious weeds by name and number per pound.
- All best management practices (BMPs) used shall be selected, installed, implemented, and 4 maintained according to appropriate engineering, hydrologic and pollution control practices.
- The use of chemicals such as soil stabilizers, dust palliatives, herbicides, growth inhibitors, 5. fertilizers, deicing salts, etc., shall be in accordance with the manufacturer's recommended application rates, frequency, and instructions. These chemicals shall not be used, stored, or stockpiled within 50 horizontal feet of the creek or other aquatic habitats.
- Construction equipment, fuels, lubricants, and other petroleum distillates shall not be stored or 6. stockpiled within 50 horizontal feet of the creek or other aquatic habitats. Equipment fueling and servicing shall occur only within approved designated areas.
- 7. Planting plan, species, distribution, and quantity to be confirmed with a qualified ecologist prior to construction.

SEEDBED PREPARATION NOTES:

- 1. The ecologist will oversee and inspect all seedbed preparation activities.
- 2. Do not work soils when frozen, snow covered, wet, or muddy.
- 3. Before topsoil is placed, sub-soil in all work areas (other than the immediate channel banks) will be decompacted and loosened to a depth of 12 inches.
- 4. Access roads and staging areas will be decompacted and loosened to a depth of 18 inches prior to topsoil placement.
- When spreading topsoil, ensure that the layer is not compacted by using a soil penetrometer -5. in general, penetrometer readings less than 200 pounds per square inch (psi) in the top 8 inches are appropriate. Contractor should place topsoil in a manner that precludes having to continuously drive over newly placed topsoil.
- Following topsoil placement, and before seeding and mulch application, topically apply organic 6. slow release fertilizer (such as Biosol Forte) at 800 lbs. per acre to all disturbed non-wetland areas.
- All finished grades will be left rough and natural with soil clods no greater than 3 inches in 7. diameter, no smooth surfaces or straight edges.

CONTAINERIZED PLANT MATERIAL INSTALLATION NOTES:

- 1. All containerized plant material must be inspected for health, size, species, and quantity upon arrival onsite, notify the ecologist at least 3 business days prior to delivery. Alternatively, local nursery inspection of plants may be arranged prior to delivery. Please notify the ecologist at least 3 business days prior to scheduled delivery.
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Client/Project CORE CONSULTANTS, INC TIMBER RIDGE WETLAND MITIGATION

COLORADO SPRINGS, CO

Project Milestone CONCEPTUAL DESIGN - NOT FOR CONSTRUCTION Sheet Name

COVER_WETLAND - NOTES

2021009009

Project No

1" = 100' Horizontal Scale

Sheet 2 of 5

TOPSOIL STOCKPILE NOTES:

- 1. The ecologist will oversee and inspect topsoil stockpiling activities.
- 2. Stockpile topsoil from wetlands separately in windrows, piles should be uncompacted and low in height with soil mounds no higher than 10 feet to preserve soil microbes and ideally no higher than 4 feet if space onsite allows.
- 3. Stockpile topsoil (separately from subgrade) from all other areas disturbed by the project in windrows, piles should be uncompacted and low in height with soil mounds no higher than 10 feet to preserve soil microbes and ideally no wider than 4 feet if space onsite allows.
- 4. Use a placard to identify stockpiles as "Wetland Topsoil", "Topsoil", or "Subgrade".
- 5. All topsoil stockpiled longer than 1 month should be seeded with Italian rye (*Lolium multifolorum*) at a rate of 2 lbs/1000 square feet.
- 6. Test all topsoil stockpiles for standard nutrient tests and USDA texture analysis and provide test results to the ecologist for review prior to application. Soil amendments may be adjusted based on these test results.
- 7. Prior to topsoil placement, the top one foot of the stockpile material should be mixed with the remainder of the stockpile to distribute living organisms.

SEEDING AND MULCHING NOTES:

- 1. No construction equipment will be allowed in the project area after seeding.
- 2. All seed bags found onsite should be tagged and labeled. Seed bag tags should have the following information; project Name, total pounds, and the scientific names and seeding rate for each species.
- 3. The contractor will stake the seeding limits and obtain approval from the ecologist prior to seeding.
- 4. Seeding will only be performed between October 1 and when the ground freezes, and when the ground thaws and June 1, unless approved by the ecologist.
- 5. All areas in Zone A will be seeded with the Wetland Seed Mix.
- 6. Seeding rates shown in the tables are for drill seeding, double the rate for broadcast seeding.
- 7. Adjacent seed mixes will be overlapped by each other a minimum of 3 feet.
- 8. After seeding, all areas that lack erosion control blanket will be hydromulched with mechanically defibrated virgin wood fiber at a rate of 2,500 lbs/acre with 150 lbs/acre of organic psyllium derived tackifier.

WETLAND PLANTINGS

ZONE A WETLAND PLANTINGS					
SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING (O.C.)		
Bolboschoenus maritumus	Alkali bulrish	10 ci	1.5'		
Carex nebrascensis	Nebraska sedge	10 ci	1.5'		
Distichlis stricta	Inland saltgrass	10 ci	1.5'		
Eleocharis palustris	Common spikerush	10 ci	1.5'		
Juncus balticus	Baltic's rush	10 ci	1.5'		
Juncus terreyi	Torrey's rush	10 ci	1.5'		
Schoenoplectus pungens	Common threesquare	10 ci	1.5'		
Schoenoplectus tabernaemontani	Softstem bulrish	10 ci	1.5'		
Salix amygdaloides	Peachleaf willow	5-gal	10'		

PROVIDED BY CORE CONSULTANTS

WETLAND SEEDING PLAN

SCIENTIFIC NAME	COMMON NAME	VARIETY	% in Mix	PLS lbs/ac* (broadcast)
Graminoids				
Andropogon gerardii	Big bluestem	Pawnee	5	2.5
Carex nebrascensis	Nebraska sedge	Native	3	0.4
Carex praegracilis	Meadow sedge	Native	3	0.3
Distichlis stricta (D. spicata)	Inland saltgrass	Native	15	1.9
Eleocharis palustris	Creeping spikerush	Native	3	0.3

SCIENTIFIC NAME	COMMON NAME	VARIETY	% in Mix	PLS lbs/ac* (broadcast)
Elymus lanceolatus ssp. psammophilus	Streambank wheatgrass	Sodar	15	6.3
Elymus trachycaulus	Slender wheatgrass	Pryor	5	2.1
Hordeum jubatum (syn: Critesion jubatum)	Foxtail barley	Native	3	1.4
Juncus arcticus (syn: Juncus balticus)	Baltic rush/Arctic rush	Native	10	0.1
Pascopyrum smithii (syn: Agropyron smithii)	Western wheatgrass	Rosanna	20	11.9
Puccinellia nuttalliana (Syn: P. airoides)	Nuttal alkaligrass (alkali saltgrass)	Native	5	0.1
Spartina pectinata	Prairie cordgrass	Native	3	1.0
Sporobolus airoides	Alkali sacaton	Native	10	0.4
*Halve rate for drill seeding.				28.7

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Project Milestone CONCEPTUAL DESIGN - NOT FOR CONSTRUCTION

Sheet Name

NOTES (2)

2021009009

Project No

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CYLINDRICAL PLUG 1'-6" OR AS SPECIFIED NOTES 1. -DIBBLE 2. 3. PLUG 4 MOIST, SATURATED 5. **EXISTING SOIL** 6.

- DROP WOODEN DIBBLE STICK WITH APPROPRIATELY SIZED STEEL END INTO SOIL AT SPECIFIED SPACING
- FROM OTHER PLUGS. STEP ON STEEL FOOT PLATE TO CREATE DEEPER HOLE. REMOVE
- DIBBLE STICK. REMOVE WETLAND PLUG FROM CONTAINER AND PLANT ROOTS DOWN.
- DO NOT FOLD OR BEND ROOTS.
- PLANT TO FULL DEPTH.
- PLANT WITH $\frac{1}{2}$ " TO 1" NATIVE SOIL
- TAMP ON SOIL AROUND PLANT TO SECURE.

NOTES

2.

3.

4

5.

PLUGS.

ROOTS.

SECURE.

CYLINDRICAL CONTAINER PLUGS



- INSTALL WATERFOWL GRAZING CONTROL AS REQUIRED.
 - SQUARE CONTAINER PLUGS

NOTES

- 1. KEEP PLANT MOIST AND SHADED IN MULCH BEDS ON SITE UNTIL TIME OF PLANTING.
- 2. FOR ROOT BOUND CONTAINER PLANTS, MAKE 4-5" DEEP VERTICAL CUTS INTO ROOT BALL EDGE AND PLANT IMMEDIATELY.
- 3. DO NOT CUT LEADER, PRUNE ALL DAMAGED OR DEAD WOOD AFTER PLANTING, STAKING AND MULCHING, KEEP CROWN SHAPE TYPICAL OF SPECIES, REMOVE ALL PLANTING TAGS, TAPE AND LABELS AFTER FINAL ACCEPTANCE BY LANDSCAPE ARCHITECT OR ECOLOGIST.
- 4. PROVIDE WILDLIFE PROTECTION AROUND PLANTED SHRUB AS NEEDED.



SHRUB PLANTING CONTAINER

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COLORADO SPRINGS, CO

Project Milestone CONCEPTUAL DESIGN - NOT FOR CONSTRUCTION

Sheet Name NOTES (3)

2021009009

Project No

1" = 100'

Sheet 4 of 5

Horizontal Scale

COVER NURSERY SOIL AROUND

DROP SPADE INTO SOIL APPROXIMATELY 1'-6" FROM OTHER

STEP ON SPADE AND MOVE BACK AND FORTH TO CREATE AN OPEN POCKET LARGE ENOUGH FOR THE ROOT MASS TO BE INSTALLED FULLY WITHOUT HAVING TO BEND THE

REMOVE WETLAND PLUG FROM CONTAINER AND PLANT ROOTS DOWN SO THAT THE TOP OF THE ROOTS ARE JUST BELOW THE SOIL SURFACE IN THE HOLE. COVER NURSERY SOIL AROUND PLANTS WITH 1/2" TO 1" NATIVE SOIL. TAMP ON SOIL AROUND PLANT TO







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Client/Project CORE CONSULTANTS, INC TIMBER RIDGE WETLAND MITIGATION

COLORADO SPRINGS, CO

Project Milestone CONCEPTUAL DESIGN - NOT FOR CONSTRUCTION

Sheet Name PLAN (1)

Project No.

2021009009 1" = 50'

Horizontal Scale

Sheet 5 of 5