SHERWOOD PARK WETLAND RESTORATION PROJECT
PART OF THE ROUGE RIVER AOC WAYNE COUNTY HABITAT RESTORATION PROJECT
WAYNE COUNTY, MICHIGAN

FOR BIDDING - DECEMBER 2021

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PROJECT LOCATION MAP
SHERWOOD PARK
WESTLAND, WAYNE COUNTY, MI
NOT TO SCALE

PROJECT VICINITY MAP
SHERWOOD PARK
WESTLAND, WAYNE COUNTY, MI
NOT TO SCALE

PREPARED BY:
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PROJECT VICTINITY MAP
SHERWOOD PARK
WESTLAND, WAYNE COUNTY, MI
NOT TO SCALE

PROJECT DESIGN FUNDED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY THROUGH A GREAT LAKE RESTORATION INITIATIVE GRANT (GLRI EPA AWARD NO. GL-06E02432-2).
PROJECT IMPLEMENTATION FUNDED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY THROUGH A GREAT LAKE RESTORATION INITIATIVE GRANT (GLRI EPA AWARD NO. GL-06E02896).
1. The contractor shall become familiar with all existing site conditions prior to starting work.

2. The contractor understands and acknowledges that the performance of the work is required within the Rouge River system and floodplain and that the Rouge River has a very short response time to storm runoff.

3. The contractor understands and acknowledges that the performance of the work is influenced by any water level changes that might occur in the Rouge River system, and that changes or fluctuation in water levels may require realignment or realignment of the course of the project is likely and does not constitute a change in conditions or an unforeseen site condition.

4. The contractor shall be fully aware of the Rouge River Floodplain and the floodplain map #26163C0230E, effective February 2, 2012.

5. The contractor understands and acknowledges that any fluctuations in water levels, flooding, or inundation during/over the duration of the project shall not constitute a change in conditions or an unforeseen site condition.

6. The contractor shall be fully aware of the Rouge River system and floodplain and that the performance of the work is influenced by any water level changes that might occur in the Rouge River system.

7. The contractor understands and acknowledges that the performance of the work is influenced by changes in water level, flooding, inundation or flooding, and that changes or fluctuations in water levels may require realignment or realignment of the course of the project is likely and does not constitute a change in conditions or an unforeseen site condition.

8. The contractor shall be fully aware of the Rouge River system and floodplain and that the performance of the work is influenced by any water level changes that might occur in the Rouge River system.

9. The contractor understands and acknowledges that any fluctuations in water levels, flooding, or inundation during/over the duration of the project shall not constitute a change in conditions or an unforeseen site condition.

10. The contractor shall be fully aware of the Rouge River system and floodplain and that the performance of the work is influenced by any water level changes that might occur in the Rouge River system.

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14. The contractor understands and acknowledges that any fluctuations in water levels, flooding, or inundation during/over the duration of the project shall not constitute a change in conditions or an unforeseen site condition.
1. CONTRACTOR TO UNDERSTAND AND ADHERE TO ALL WEIGHT RESTRICTIONS, HEIGHT RESTRICTIONS AT BRIDGES, AND ALL OTHER REQUIREMENTS AND RESTRICTIONS ALONG EDWARD N. HINES DRIVE AND ANY ACCESS ROAD USED TO ACCESS THE PROJECT SITE.

2. ALL ROAD WORK NOTESonian shall be completed within the limits of disturbance in accordance with the plans and specifications. No additional road grading, compaction, or surfacing shall be performed as required in the construction process, and the project site shall be left in a condition that is consistent with the plans and specifications.

3. ALL TEMPORARY FENCE LINE LOCATION AND STORAGE OF MATERIALS SHALL BE PERMITTED ONLY UPON APPROVAL BY ENGINEER.

4. ALL CONTRACTOR SHALL PROVIDE REMOTE ACCESS TO THE PROJECT SITE FOR THE PERIOD OF CONSTRUCTION.

5. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OVER EXISTING ASPHALT ROADWAYS OR GRAVEL ROADWAYS TO PREVENT PHYSICAL DAMAGE OR CHEMICAL DAMAGE FROM LEAKING FUEL PRODUCTS. ALL ASPHALT ROADWAY OR GRAVEL ROADWAY SHALI BE CONTRACTOR'S RESPONSIBILITY TO PREVENT PHYSICAL DAMAGE OR CHEMICAL DAMAGE TO THE EXISTING ROADWAY OR GRAVEL ROADWAY.

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NOTES:
1. SEE SHEET 1 FOR GRADING PLAN
2. SEE SHEETS 8-11 FOR REVEGETATION PLAN
3. SEE SHEET 13 FOR CULVERT DETAILS
4. CENTER LINE OF PROPOSED PATH TO BE STAKED OUT IN FIELD PRIOR TO CONSTRUCTION FOR OWNER AND ENGINEER/ARCHITECT REVIEW.
5. LIGHTFEST LOCATIONS ARE TO PROVIDE SPACE FOR COUNTY USE. ACCESS WILL BE REQUIRED FOR SET UP AND DURATION OF LIGHTFEST (OCTOBER THROUGH JANUARY). SEE COORDINATION NOTES ON SHEET 5.
6. TOPSOIL IS TO BE STOCKPILED AND REAPPLIED AS NEEDED.
7. IT IS THE CONTRACTOR’S RESPONSIBILITY TO CONDUCT LAYOUT AND STAKING AS NEEDED TO CONDUCT WORK. DIGITAL AUTOCAD FILES SHALL BE PROVIDED TO CONTRACTOR TO FACILITATE LAYOUT OF PROPOSED WORK.
8. INVASIVE SPECIES TREATMENT AREA TO BE CLEARED OF FELLED TREES/SHRUBS, VINES, STUMPS, LOGS, BRUSH, BRUSH PILES, ROOTS, UNDERGROWTH, TRASH, LiquID LITTER, AND OTHER DISCARDED MATERIALS.
9. SOME WOODY MATERIAL MAY REMAIN ON SITE FOR HABITAT BENEFIT AS DIRECTED BY ENGINEER PRIOR TO CONSTRUCTION.
10. PER THE GLRI GRANT, THIS PROJECT IS COMMITED TO MEETING THE FOLLOWING HABITAT METRICS:

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LEGEND

- Proposed Native Wetland Seed Mix
- Proposed Native Emergent Seed Mix
- Proposed Native Upland Seed Mix I
- Proposed Native Upland Seed Mix II
- Proposed Native Stabilization Seed Mix
- Proposed Live Stakes
- Proposed Native Plug Mix
- Proposed Native Shrubs
- Existing Wetland
- Wildlife Culvert
- Lightest Display Area

LIMITS OF MOWING

- Proposed No Mow Sign
- Limits of Seeding
- Proposed No Mow Sign
- Access to Lightest Display Areas

NOTE: REFER TO SHEET 11 FOR SEED MIX DETAILS, OVERALL QUANTITIES, AND SEEDING RATES.

PROJECT DESIGN FUNDED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY THROUGH A GREAT LAKES RESTORATION INITIATIVE GRANT (GLRI EPA AWARD NO. GL-00E02432-2).

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PLANT LIST: REFER TO SHEET 8 FOR OVERALL QUANTITIES, PLANT ID, List: REFER TO SHEET 11 FOR SEED MIX DETAILS, OVERALL QUANTITIES, AND SEEDING RATES.
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SIGNAGE

PEDESTRIAN ROUTING

DRAWN BY

APPROVED BY

AAB

ECT PROJECT NUMBER

200115-0200

04-21-20 PRELIMINARY

01-2021 FOR AGENCY REVIEW

12-2021 FOR BIDDING

NOTE: 1. DURING CONSTRUCTION THE CONTRACTOR SHALL NOT OPERATE ANY HEAVY EQUIPMENT OVER THE CULVERT UNLESS PERMITTED IN WRITING BY THE ENGINEER.

NOTE: 2. ALL ROAD SHOULDERS SHALL BE RESTORED WITH 4" TOPSOIL AND SEEDED AS SHOWN ON DRAWINGS.

NOTE: 3. DO NOT DISTURB EXISTING WETLANDS, EXCEPT FOR DISTURBANCE NECESSARY FOR REMOVAL AND INSTALLATION OF CULVERT AND APRON END PIECE.

NOTE: 4. THE CONTRACTOR MUST PROVIDE A TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.

NOTE: 5. THE CONTRACTOR'S TRAFFIC CONTROL PLAN MUST INCLUDE CONTROL MEASURES, ANTICIPATED SCHEDULING, NUMBER OF DAYS OF ANTICIPATED ROAD CLOSURES.

NOTE: 6. THE CONTRACTOR'S TRAFFIC CONTROL PLAN MUST ADHERE TO STATE AND LOCAL REQUIREMENTS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

NOTE: 7. HINES DRIVE MAY BE CLOSED FOR CULVERT REMOVAL AND REPLACEMENT ACTIVITIES BETWEEN THE HOURS OF 9AM AND 3PM ON ANY GIVEN DAY, MONDAY THROUGH FRIDAY. THE ROAD MUST BE OPEN TO TRAFFIC BETWEEN 3PM AND 9AM MONDAY THROUGH FRIDAY AND COMPLETELY OPEN TO TRAFFIC ON SATURDAY AND SUNDAY. CONTRACTOR TO SEQUENCE, STAGE, AND PROVIDE TEMPORARY CONTROLS AND MEASURES TO ALLOW FOR THIS ROAD CLOSURE DURATION.

NOTE: 8. THE CONTRACTOR SHALL STAGE AND STORE EQUIPMENT AND MATERIALS WITHIN REASONABLE DISTANCE OF THE CONSTRUCTION SITE TO FACILITATE TRAFFIC TO TRAVERSE THE WORK AREA DURING THE TIMES LISTED ON THE TEMPORARY SCHEDULE. TEMPORARY MEASURES MAY INCLUDE, BUT NOT LIMITED TO, TEMPORARY BACKFILL, PLATES, OR TEMPORARY ASPHALT OR OTHER MEANS TO ENSURE SAFETY AND SUFFICIENTLY ALLOW FOR TRAFFIC TO TRAVERSE THE WORK AREA DURING THE TIMES LISTED ON THE TEMPORARY SCHEDULE.

NOTE: 9. ALL SIDEWALKS WITHIN OR IN CLOSE PROXIMITY OF THE CONSTRUCTION LIMITS SHALL BE ADEQUATELY BARRICADED FOR THE DURATION OF CONSTRUCTION. APPROPRIATE SIGNAGE SHALL BE INSTALLED TO CLEARLY IDENTIFY THESE AREAS TO AVOID ACCIDENTS AND SATISFY THE REQUIREMENTS OF THE TRAFFIC CONTROL PLAN.

NOTE: 10. CONTRACTOR TO IMPLEMENT A PROGRAM TO ENSURE THAT ALL CONSTRUCTION ACTIVITIES WITHIN THE ROAD SHALL BE PERFORMED WITH MINIMAL DISTURBANCE TO THE EXISTING ROAD AND WITHIN THE SHORTEST TIME PERIOD.
Herdaceous Planting

WALKING PATH CORRIDOR

RESTITED PATH

LEADER DETAIL

NOTES:
1. SHEET DATE: 04-21-22
2. SHEET TITLE: HERBACEOUS PLANTING
3. SHEET NUMBER: 14
4. SHEET SCALE: NOT TO SCALE
5. SHEET TITLE: WAYNE COUNTY SHRUB PLANTING DETAIL - BARE ROOT OR CONTAINER
6. SHEET NUMBER: 14
7. SHEET SCALE: NOT TO SCALE
8. SHEET TITLE: LIVE STAKE INSTALLATION
9. SHEET NUMBER: 14
10. SHEET SCALE: NOT TO SCALE

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NOTES:
1. INSTALL AS DIRECTED BY URS/ECOLGOIC DURING FIRST DORMANT SEASON FOLLOWING SEEDING.
2. INSTALL LIVE STAKES AT RIGHT ANGLES TO PATH OR ROAD.
3. BURY FOUR FIFTHS OF THE STAKE IN THE GROUND AND TINA FIRE SPOOL AROUND IT AS NECESSARY.
4. INSTALL STAKES 3 FEET APART IN TRIANGULAR SPACING PATTERN.
5. GROUND SURFACE AT FINAL GRADE

NOTES:
1. SMALL BIOTIC FACTORS IN ZONE 2.
2. PLANTING MUCRO TREATED TO BE TREE-NEUTRAL TO THE TAPED EDGE.
3. CLEAN BACKFILL AS SPECIFIED.
4. HARD TAMPED 45 DEGREE EDGE.
5. SUPERFICIAL SOILS OF PLANTING HOLE.
6. THIS HOE CLEARED FROM PLANTING HOLE FRM.

NOTES:
1. EDGE DETAIL
2. PLANTING MUCRO TREATED TO BE TREE-NEUTRAL TO THE TAPED EDGE.
3. CLEAN BACKFILL AS SPECIFIED.
4. HARD TAMPED 45 DEGREE EDGE.
5. SUPERFICIAL SOILS OF PLANTING HOLE.
6. THIS HOE CLEARED FROM PLANTING HOLE FRM.

NOTES:
1. SHEET DATE: 04-21-22
2. SHEET TITLE: RESTORED PATH
3. SHEET NUMBER: 14
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6. THIS HOE CLEARED FROM PLANTING HOLE FRM.
SHERRIDOW PARK HABITAT RESTORATION

Thank you for keeping off newly planted areas

RESTORATION IN PROGRESS

PROJECT IN PROGRESS

SHERIDOW PARK HABITAT RESTORATION

Thank you for keeping off newly planted areas

RESTORATION IN PROGRESS

1. SEEDS SHALL BE FRESH, CLEAN, NEW SEED OF NATIVE PLANT MATERIAL OF GENOTYPES FROM THE NORTH CENTRAL STATES ONLY (IL, IN, WI, IA, MN, NE), AND FROM A RECOMMENDED NURSERY OF THIS REGION. REFER TO SPECIFICATION 002.

2. NATIVE SEED AREAS SHALL BE SEEDED AFTER MAY 10, WHEN SOIL IS FREE OF FROST AND IN WORKABLE CONDITION, BUT BEFORE JUNE 10 AND IN OCTOBER 1, BUT BEFORE NOVEMBER 10 OR FEBRUARY 1, OR APPROVED BY THE LANDSCAPE ARCHITECT. REFER TO SPECIFICATION 002.

3. THE CONTRACTOR UNDERSTANDS AND ACKNOWLEDGES THAT THEY HAVE TAKEN INTO ACCOUNT THE POTENTIAL FOR ANY WATER LEVEL FLUCTUATIONS, FLOODING, OR INUNDATION DURING/OVER THE COURSE OF THE PROJECT IS LIKELY AND DOES NOT CONSTITUTE A CHANGE IN THE CONTRACT. THEREFORE THE CONTRACTOR ACKNOWLEDGES THAT ANY FLUCTUATION IN WATER LEVELS, FLOODING, OR INUNDATION WITHIN THE COURSE OF THE PROJECT IS LIKELY AND DOES NOT CONSTITUTE A CHANGE IN ANY UNFORESEEN SITE CONDITION.

4. ERONICO CONTROL: SEEDING, PLANTING, MAINTENANCE AND WARRANTY PERIOD:

A. MAINTENANCE PERIOD: ENSURE THAT ALL SHRUBS, SEEDLING, AND HERBACEOUS PLANTS INSTALLED UNDER THIS CONTRACT WILL BE HEALTHY AND IN FLOURISHING CONDITION OF ACTIVE GROWTH FOR TWO (2) FULL GROWING SEASONS (MAY THROUGH OCTOBER) FROM DATE OF PLANTING INSTALLATION ACCEPTANCE. THE CONTRACTOR SHALL RESPOND WITHIN TEN (10) DAYS OF NOTICE OF WRITTEN REQUEST FROM THE PROPERTY OWNER OR MANAGER REGARDING ALL WORK DONE BY THE CONTRACTOR PRIOR TO OR DURING THE MAINTENANCE PERIOD. DEFECTS IN INSTALLATION, MATERIALS, WORKMANSHIP, OR PERFORMANCE WHICH EXTENDS INTO MORE THAN ONE PLANTING SEASON SHALL EXTEND THE WARRANTY PERIOD CORRESPONDINGLY.

B. REPLACEMENTS. AS SOON AS NOTICED CONFORMITIES REPORT, REPLACE, WITHOUT COST TO OWNER, ALL DEAD PLANTS AND ALL PLANTS NOT IN A VIGOROUS, THATCHING CONDITION, AS DETERMINED BY THE ENGINEER DURING AND AT THE END OF THE MAINTENANCE AND WARRANTY PERIODS.

C. PATCH ON BARREN AREAS (IN EXCESS OF 4 SQUARE FEET) WHERE SEED MIX FAILED TO CREATE SUFFICIENT DENSITY OF COVER SHALL BE SEEDED BY HAND AT THE RECOMMENDED RATE OF APPLICATION AT NO ADDITIONAL COST TO OWNER.

D. INCORRECT MATERIALS: DURING MAINTENANCE PERIOD REPLACE AT NO COST TO OWNER ALL PLANTS INSTALLED AS BEING UNEFFECTIVE, PROVIDE REPLACEMENTS OF A SIZE AND QUANTITY TO MATCH THE PLANTED MATERIALS AT THE TIME THE MISTAKE IS DISCOVERED.

E. MULCH FOR SHRUBS SHALL BE NATURAL DOUBLE SHREDDED HARDWOOD.

F. FINE GRADE TO A SMOOTH EVEN SURFACE WITH NO "BIRD BATHS", HAVING LOOSE, UNIFORM FINE TEXTURE. REMOVE ANY MATERIALS AS NOT IN TANDEM WITH HAVING IN VARIOUS MAINTENANCE OR MAINTENANCE ALERTS.

G. FIRE GRASS, AND ADOPT A FIRE CONTROL PLAN.

H. REDUCE THE MULCH TO A DEPTH OF 2 INCHES; PREPARE EROSION CONTROL BLANKET AFTER SEEDING, BUT PRIOR TO PLANTING. EROSION CONTROL BLANKET SHALL BE INSTALLED WHERE THE CONTRACTOR FEELS IT NEEDED TO PROVIDE BARRIER TO PEDESTRIANS FROM ENTERING THE PROTECTION OF WORK.

I. RESTORE PREPARED AREAS TO SPECIFIED CONDITION IF ERODED, SETTLED OR OTHERWISE DISTURBED AFTER FINE GRADING. DO NOT FERTILIZE FORWARD SEEDING AREAS WITH MANURE OR NITROGEN BASED FERTILIZERS, OR APPLICATION OF CALCIUM SULFATE, OR OTHER MATERIALS THAT INCREASE SOIL ACIDITY.

J. NOTIFY THE OWNER PRIOR TO AND FOLLOWING ANY MAINTENANCE ACTIVITY.

11. FINAL ACCEPTANCE OF WORK WILL BE SUBJECT TO ACCEPTANCE BY PROJECT MANAGER AND OWNER AT THE END OF MAINTENANCE PERIOD.

GENERAL NOTE:

1. NATIVE PLANTINGS AND SEEDING ACTIVITIES PRIOR TO OR DURING WET WEATHER WHEN EXCESSIVE PRECIPITATION MAY RESULT IN WASHING OF SEED-MIX FROM LOCATION INTENDED.

2. THE CONTRACTOR ACKNOWLEDGES THAT THE PERFORMANCE OF THE WORK IS REQUIRED WITHIN THE ROUGE RIVER SYSTEM AND FLOODPLAIN AND THAT THE ROUGE RIVER WATER LEVEL FLUCTUATE. ROUGE RIVER HAS A VERY SHORT RESPONSE TIME TO STORM RUNOFF.

3. NATIVE SEED AREAS SHALL BE SEEDED AFTER MAY 10, (WHEN SOIL IS FREE OF FROST AND IN WORKABLE CONDITION), BUT BEFORE JUNE 10 AND IN OCTOBER 1, BUT BEFORE NOVEMBER 10 OR FEBRUARY 1, OR APPROVED BY THE LANDSCAPE ARCHITECT. REFER TO SPECIFICATION 002.

4. RESTORATION IN PROGRESS SIGN

5. PATCHY OR BARE AREAS (IN EXCESS OF 4 SQUARE FEET) WHERE SEED MIX FAILED TO CREATE SUFFICIENT DENSITY OF COVER SHALL BE SEEDED BY HAND AT THE RECOMMENDED RATE OF APPLICATION AT NO ADDITIONAL COST TO OWNER.

6. REMOVE ALL CONTAINERS, TAGS AND PACKAGING MATERIAL AND DISPOSE OF LEGALLY OFF-SITE. REFER TO SPECIFICATION 002.

7. PATCH ON BARREN AREAS (IN EXCESS OF 4 SQUARE FEET) WHERE SEED MIX FAILED TO CREATE SUFFICIENT DENSITY OF COVER SHALL BE SEEDED BY HAND AT THE RECOMMENDED RATE OF APPLICATION AT NO ADDITIONAL COST TO OWNER.

8. DO NOT UNDERTAKE SEEDING AND PLANTING ACTIVITIES PRIOR TO OR DURING WET WEATHER WHEN EXCESSIVE PRECIPITATION MAY RESULT IN WASHING OF SEED-MIX FROM LOCATION INTENDED.

9. MULCH FOR SHRUBS SHALL BE NATURAL DOUBLE SHREDDED HARDWOOD.

10. NOTIFY THE OWNER PRIOR TO AND FOLLOWING ANY MAINTENANCE ACTIVITY.

11. FINAL ACCEPTANCE OF WORK WILL BE SUBJECT TO ACCEPTANCE BY PROJECT MANAGER AND OWNER AT THE END OF MAINTENANCE PERIOD.

PRIVATE TREE PLANTING:

THE CONTRACTOR WILL PLANT AT LEAST 50 IDENTICAL SPECIMENS OF NATIVE PLANTS ON THE PROJECT SITE (3 OF WHICH WILL BE PLANTED DURING THIS SEASON)

GENERAL NOTE:

1. NATIVE PLANTINGS AND SEEDING ACTIVITIES PRIOR TO OR DURING WET WEATHER WHEN EXCESSIVE PRECIPITATION MAY RESULT IN WASHING OF SEED-MIX FROM LOCATION INTENDED.

2. THE CONTRACTOR ACKNOWLEDGES THAT THE PERFORMANCE OF THE WORK IS REQUIRED WITHIN THE ROUGE RIVER SYSTEM AND FLOODPLAIN AND THAT THE ROUGE RIVER WATER LEVEL FLUCTUATE. ROUGE RIVER HAS A VERY SHORT RESPONSE TIME TO STORM RUNOFF.

3. NATIVE SEED AREAS SHALL BE SEEDED AFTER MAY 10, (WHEN SOIL IS FREE OF FROST AND IN WORKABLE CONDITION), BUT BEFORE JUNE 10 AND IN OCTOBER 1, BUT BEFORE NOVEMBER 10 OR FEBRUARY 1, OR APPROVED BY THE LANDSCAPE ARCHITECT. REFER TO SPECIFICATION 002.

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