Addendum 2
Solicitation 20-99380
Keene Creek Park Improvements

This addendum serves to notify all bidders of the following changes to the solicitation documents:

1. Contractors shall substitute three White Pine trees for three Alleghany Serviceberry trees.

2. Updates have been made to the existing utility information.

3. The bid form in the BidExpress solicitation has been updated to reflect changes per this addendum.

4. A revised planset is attached with changes per this addendum.

Please acknowledge receipt of this Addendum by checking the acknowledgment box within the www.bidexpress.com solicitation.

Posted: July 2, 2020
LEGEND

EXISTING
- MAJOR CONTOUR (5')
- MINOR CONTOUR (1')
- EXISTING TRAIL
- CENTERLINE
- EXISTING STORM SEWER
- CREEK

PROPOSED
- PROPOSED CONTOUR - MAJOR (5')
- PROPOSED CONTOUR - MINOR (1')
- FILTER LOG TYPE COMPOST
- STORM SEWER
- RIP RAP/ ROCK ARMORING
- ROCK STABILIZED ENTRANCE
- SEEDING

EXISTING UTILITY LOCATIONS

THE CONTRACTOR SHALL VERIFY ALL EXISTING UNDERGROUND UTILITY LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. ALL INPLACE UTILITIES MAY NOT BE SHOWN ON THIS PLAN & THOSE THAT ARE SHOWN, MAY NOT BE SHOWN IN THE EXACT LOCATIONS.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL "D". THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CIASCE 38-02. ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA.

GOPHER STATE ONE CALL
651.454.0002
800.252.1168
811
1.866.640.3637 (EMERGENCY LOCATES ONLY)
http://www.gopherstateonecall.org/submit

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DULUTH, MN 55802
T 218.724.8578
F 218.724.8579

PROJECT LOCATION

ST LOUIS COUNTY
CITY OF DULUTH
SECTIONS 12 & 13
T 49, R 15 AND
SECTION 7
T 49, R 14

CONTRACTOR TO NOTIFY 911 PERSONNEL PRIOR TO ALL ROAD CLOSURES.

SPECIFICATION REFERENCES

1. THE 2019 CITY OF DULUTH, MINNESOTA CONSTRUCTION STANDARDS SHALL APPLY.
2. THE MINNESOTA DEPARTMENT OF NATURAL RESOURCES "TRAIL PLANNING, DESIGN, AND DEVELOPMENT GUIDELINES" SHALL APPLY.
3. THE 2018 MNDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION SHALL APPLY.

SHALL VERIFY ALL DIMENSIONS BY ALL CONTRACTORS AND SUBCONTRACTORS PRIOR TO ALL ROAD CLOSURES.

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE 06/18/20 LIC. NO. 54757

The information in this drawing has been double-checked. This drawing is for information only and not intended for precise location, measurement or construction purposes.
STATEMENT OF ESTIMATED QUANTITIES

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CONSTRUCTION NOTES:

1. SALVAGE FENCING PAY ITEM TO INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO SALVAGE EXISTING CHAINLINK FENCING AND POSTS FOR RE-USE ON SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING SALVAGED MATERIALS IN FRONT OF RE-INSTALLATION.
2. BITUMINOUS REMOVALS ADJACENT TO REMAINING BITUMINOUS SHALL BE SAW CUT JUST PRIOR TO PATCHING TO MAINTAIN A CLEAN PATCH JOINT.
3. RELOCATE BENCH PAY ITEM SHALL INCLUDE ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO SALVAGE AND REINSTALL BENCH ASSEMBLY WITHIN THE NEW FENCED BOUNDARY. THE BENCH ASSEMBLY INCLUDES THE BENCH, FRAME, FOUNDATION AND NEW CONCRETE PAD. OLD CONCRETE PAD SHALL BE REMOVED AND PROPERLY DISPOSED OF.
4. COMMON EXCAVATION SHALL INCLUDE ALL MATERIALS, LABOR AND EQUIPMENT NECESSARY TO CUT AND COMPACT THE SUBGRADE IN GRADED AREAS, THIS INCLUDES SITES GRADING AND TRAIL SUBGRADE PREPARATION. EXCAVATED MATERIAL MAY BE STOCKPILED ON SITE IN DESIGNATED LOCATIONS. SEEDED AND UNSEED MATERIAL WILL BE USED BY OTHERS FOR PREPARATION OF THE BIKE SKILLS AREA.
5. TO THE MAXIMUM EXTENT PRACTICAL, CONTRACTOR TO STAGE WORK TO MAINTAIN A SEPARATE ENCLOSURE FOR DOG PARK USERS.
6. CONTRACTOR SHALL RELOCATE DESIGNATED TREES AHEAD OF FENCE SALVAGING OPERATION. RELOCATED TREES TO BE PROTECTED AND REINSTALLED WITHIN THE NEW FENCED BOUNDARY.
7. WATER SERVICE TAP AND HOOKUP PAY ITEM SHALL INCLUDE ALL MATERIALS, LABOR AND EQUIPMENT TO PROVIDE A NEW WATER SERVICE. CURB STOP AND HOOKUP FOR A SINGLE DRINKING FOUNTAIN IN THE PARK. THE PAY ITEM SHALL INCLUDE ALL LABOR, MATERIAL AND EQUIPMENT NECESSARY TO BACKFILL AND REBUILD THE ROADWAY SECTION SHALL BE CONSIDERED INCIDENTAL TO THE WATER SERVICE TAP AND HOOKUP PAY ITEM.
8. ENCLOSURE SCREEN - PORT A POTTY PAY ITEM SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL AN ENCLOSURE PER SHEETS 008 - 011 (OR APPROVED EQUAL), CONTRACTOR TO PROVIDE SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO ORDERING MATERIALS.
9. INSTALL CHAIN LINK FENCE PAY ITEM SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO INSTALL THE SALVAGED CHAINLINK FENCE. REPLACEMENT POSTS NECESSARY FOR REPLACEMENT OF CONCRETED OR DAMAGED POSTS SHALL BE CONSIDERED INCIDENTAL TO THE PAY ITEM.
10. CHAINLINK FENCE PAY ITEM SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO FURNISH AND INSTALL NEW CHAINLINK FENCE. NEW FENCING SHALL MATCH THE COLOR, HEIGHT AND GAUGE OF EXISTING FENCE.
11. REMOVE WOOD RETAINING WALL PAY ITEM SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO EXCAVATE WOODEN STRUCTURE, PROPERLY DISPOSE OF MATERIALS AND REMOVE SLOPE TO BE 1.5 OR LESS. ALL DISTURBED AREAS TO BE SEEDED AND BLANKETED. SEED AND BLANKET MATERIAL IS PAID FOR AS A SEPARATE BID ITEM.
12. PAINT TO BE MNDOT APPROVED WHITE LATEX. SEE MNDOT LIST OF APPROVED PRODUCTS FOR PAINTING MARKING MATERIALS.
13. TRAFFIC CONTROL PAY ITEM SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO BARRICADE WORK SITES AND ACCESS POINTS TO WARN AND DISCOURAGE PUBLIC USAGE DURING PERIODS OF ACTIVE WORK.
14. SEED MIX 25-151 USES 120 LBS/ACRE AND SEED WETLAND MIX 33-361 USED 35 LBS/ACRE.
15. INSTALL 36" WIDE PEDESTRIAN GATE IN EXISTING SPORTS COURT FENCE LINE.
FILTER FABRIC WRAP (MNDOT SPEC. 2105.504) INCIDENTAL TO PIPE 4" PERF TP PIPE DRAIN CONSTRUCTION

COARSE FILTER AGGREGATE (MNDOT SPEC. 2454.507) INCIDENTAL TO 4" PERF TP PIPE DRAIN

**TABLE OF QUANTITIES**

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<tr>
<th>DIA. OF ROUND PIPE (IN.)</th>
<th>12' DEPTH RIPRAP (CU. YDS.)</th>
<th>6' DEPTH GRANULAR FILTER BLANKET (CU. YDS.)</th>
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NOTES:
1. PIPE SIZES LARGER THAN THOSE SHOWN REQUIRE A SPECIAL DESIGN
2. REQUIREMENTS FOR RIPRAP SIZE AND THICKNESS AND GRANULAR FILTER BLANKET WILL BE DESIGNED WITH THE PLANS

**KEY NOTES:**
1. FOR PIPES GREATER THAN OR EQUAL TO 30", USE 1.5'
2. THE CONTRACTOR, AT HIS OPTION, MAY SUBSTITUTE A GEOTEXTILE FABRIC, SPEC. 3733, FOR THE GRANULAR FILTER BLANKET UNLESS OTHERWISE SPECIFIED IN THE PLANS. THE FABRIC SHOULD COVER THE AREA OF THE RIPRAP AND EXTEND UNDER THE APRON 3 FT.

**NOT TO SCALE**
CONSTRUCTION NOTES:


2. BUBBLERS, FAUCET, AGGREGATE AND SUPPORT SHALL BE CONSIDERED INCIDENTAL TO THE DRINKING FOUNTAIN PAY ITEM.

3. BUBBLERS AND FAUCET SHALL AUTOMATICALLY SHUT OFF.

4. DRINKING FOUNTAIN TO BE INSTALLED ON THE DOG PARK FENCE LINE.

5. SINGLE BUBBLER TO BE INSTALLED FACING THE PATHWAY.

6. BUBBLER AND FAUCET TO BE INSTALLED FACING INWARD TO THE DOG PARK.
18" DIA. CONCRETE FOUNDATION AT 3'-6" DEEP GRADE

2" MESH, #9 GA. GALV. FABRIC FASTENED TO OUTSIDE OF POSTS AT 14" MAX. INTERVALS

2" O.D. HOT DIPPED GALV. STEEL PIPE TO MATCH EXISTING FENCE.

GRADE

18" DIA. CONCRETE FOUNDATION AT 3'-6" DEEP

END AND CORNER POSTS ONLY.

MATCH EXISTING FENCE
**STORMWATER BASIN DETAIL**

**NOT TO SCALE**

**SECTION A-A**

- **18" SAND**
- **SOLID PIPE**
- **DAYLIGHT ON GRADE**
- **MAX SLOPE 3H:1V**
- **6" FILTER**
- **TOPSOIL**

**NOTES:**

1. PVC SCREW ON CAP AT GRADE.
2. MNDOT SPEC 3877.2G FILTER TOPSOIL

**SECTION A-A**

- **COARSE FILTER AGGREGATE 1" - 2"**
- **PIPE WIDTH + 2" ABOVE AND BELOW PIPE.**

**PLAN**

- **TYPE 1 GEOTEXTILE FILTER FABRIC**
- **TYPE V GEOTEXTILE SOIL SEPARATION FABRIC ON BOTTOM AND SIDES OF BASIN**

**MAX SLOPE 3H:1V**

- **CLEANOUT SEE NOTE 1**

**SECTION A-A**

- **SOLID PIPE**
- **DAYLIGHT ON GRADE**

**NOTES:**

- **TRANSITION FROM SOLID TO PERFORATED PIPE**
- **4" PVC PERFORATED PIPE**
- **COARSE FILTER AGGREGATE 1" - 2" PIPE WIDTH + 2" ABOVE AND BELOW PIPE.**

**SECTION A-A**

- **TYPE 1 NON-WOVEN GEOTEXTILE FILTER FABRIC**
- **TYPE V NON-WOVEN GEOTEXTILE SOIL SEPARATION FABRIC ON BOTTOM AND SIDES OF BASIN**

**PLAN**

- **18" SAND**
- **6" FILTER**
- **TOPSOIL**

**NOTES:**

- PVC SCREW ON CAP AT GRADE.
- MNDOT SPEC 3877.2G FILTER TOPSOIL
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
FRAME COLOR: SURREY BEIGE
ROOF COLOR: EVERGREEN

COLORS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. FOR OTHER COLOR SELECTIONS, PLEASE SUBMIT AN ELECTRONIC DRAWING REQUEST.
UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED TO ONLY SUPPORT WHAT IS SHOWN ON THESE DRAWINGS. POLIGON MUST BE CONTACTED IF ANYTHING ELSE IS TO BE ATTACHED TO THIS STRUCTURE (WALLS, COLUMN WRAPS, RAILINGS, ETC.) SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

UNLESS NOTED OTHERWISE, THIS STRUCTURE WAS DESIGNED ASSUMING A 20’ SEPARATION BETWEEN ANY ADJACENT STRUCTURE WITH AN EAVE HEIGHT EQUAL TO OR GREATER THAN THE EAVE HEIGHT OF THIS STRUCTURE. IF THAT SEPARATION DOES NOT EXIST, POLIGON MUST BE CONTACTED SO THE DESIGN OF THIS STRUCTURE CAN BE REVIEWED AND POSSIBLY REVISED.

STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION MANUAL.

ALL WELDING IS PERFORMED BY AMERICAN WELDING SOCIETY CERTIFIED WELDERS AND CONFORMS TO THE LATEST EDITION OF AWS D1.1 OR D1.3 AS REQUIRED.

PARTS SHOWN MAY BE UPGRADED DUE TO STANDARDIZED FABRICATION. REFER TO THE SHIPPING BILL OF MATERIALS FOR POSSIBLE SUBSTITUTIONS.

FOR PROPER FIELD INSTALLATION OF THE BUILDING IT IS RECOMMENDED THAT ELECTRIC WIRING, IF REQUIRED, BE RUN THROUGH THE STRUCTURAL MEMBERS BEFORE THE BUILDING IS ERECTED.
GENERAL ROOF NOTES:

1. METAL ROOFING:
   - 24 GAUGE
   - GALVALUME COATED
   - KYNAR 500 PAINTED

2. TRIM COLOR MATCHES ROOF

3. SEE POLIGON.COM FOR COLOR OPTIONS

TOILET SCREEN DETAIL 3 OF 5

FINISH GRADE, MOUNTING VARIES BASED ON ENGINEERING REQUIREMENTS.

STOP!!
NOT FOR CONSTRUCTION
USE FOR PRELIMINARY PLANNING AND ESTIMATING ONLY
STOP!!
NOT FOR CONSTRUCTION
USE FOR PRELIMINARY PLANNING AND ESTIMATING ONLY

FINISH GRADE MOUNTING VARIES BASED ON ENGINEERING REQUIREMENTS.
BASEPLATE NOTES:

1. POLYGON ENGINEERING WILL DETERMINE REQUIRED BASEPLATE DESIGN AFTER ENGINEERING PACKAGE IS ORDERED.
2. CUSTOMER MAY SUGGEST PREFERRED BASEPLATE DESIGN.
BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE.

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
SLOPES FLATTER THAN 1:2
120 STAPLES PER 100 SQ YD

SLOPES 1:2 TO 1:1
170 STAPLES PER 100 SQ YD

CHANNEL AND DITCH APPLICATIONS
130 STAPLES PER 100 SQ YD

BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

ALL CONTRACTORS AND SUBCONTRACTORS SHALL VERIFY ALL DIMENSIONS BY MEASUREMENT AT THE BUILDING AND/OR SITE.

FILENAME: K:\a-f\Duluth_City\16893000\04_Production\01_CAD\02_Sheets\16893000 - Keene Creek - STANDARD Details.dwg

PROJ. NO. 1
DRAWING NO. 0

ROLLED EROSION PREVENTION INSTALLATION

WDD
TSM
WDD

WILL D. DEROSHER
54757
06/18/20

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
**PROJECT DESCRIPTION**

This project will improve stormwater control and treatment in Keene Creek Park in Duluth, MN. Ground disturbing activities associated with this project will include grading, drainage improvements, utility improvements and pathway construction. The total land area anticipated to be disturbed by the project (exclusive of borrow and disposal areas) is 2.33 acres.

<table>
<thead>
<tr>
<th>AGENCY</th>
<th>PERMIT</th>
<th>NAME</th>
<th>PHONE/EMAIL</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROJECT MANAGER</td>
<td>N/A</td>
<td>T.B.D.</td>
<td>PHONE</td>
</tr>
<tr>
<td>CONTRACTOR'S EROSION</td>
<td>N/A</td>
<td>T.B.D.</td>
<td>EMAIL</td>
</tr>
<tr>
<td>CONTROL SUPERVISOR</td>
<td></td>
<td></td>
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<tr>
<td>CITY OF DULUTH</td>
<td></td>
<td>JIM SHOBERG</td>
<td>218.730.4316</td>
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<td></td>
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<td></td>
<td><a href="mailto:jshoberg@duluthmn.gov">jshoberg@duluthmn.gov</a></td>
</tr>
<tr>
<td>PROJECT ENGINEER</td>
<td>N/A</td>
<td>WILL DEROCHER, PE</td>
<td>218.491.7384</td>
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<td><a href="mailto:will.derocher@tkda.com">will.derocher@tkda.com</a></td>
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<tr>
<td>MPCA</td>
<td>NPDES</td>
<td>JIM DEXTER</td>
<td>218.302.6632</td>
</tr>
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<td><a href="mailto:james.dexter@state.mn.us">james.dexter@state.mn.us</a></td>
</tr>
</tbody>
</table>

**CALCULATIONS**

Total disturbed area = 2.33 acres
Post construction impervious area = 0.40 acres
Existing impervious area = 0.77 acres
Impervious net = 0.37 acres (decrease)

**CONSTRUCTION NOTES**


The contractor shall be responsible for implementation of the SWPPP and the installation, inspection and maintenance of the erosion and sediment control BMPs for the duration of the project.

The contractor shall keep the inspection and maintenance logs in accordance with this SWPPP. All permits, all inspection and maintenance records and design calculations. The contractor shall maintain a responsibly sized stockpile of erosion control devices available for rapid deployment when necessary.

**CONTRIBUTIONS**

Will Derocher, P.E.
 TKDA - 11 E. Superior St. Suite 420
 Duluth, MN 55802
 218.491.7384
 will.derocher@tkda.com

**TIMING OF BMP INSTALLATION**

The erosion and sedimentation control BMPs shall be installed prior to any construction activity to minimize erosion from disturbed surfaces and capture sediment on site, and shall meet the NPDES permit part IV construction activity requirements.

1. **Temporary Perimeter Control BMPs** will be installed before any up gradient soil disturbances occur.
2. **Permanent and Temporary Sediment Traps and Basins (if applicable)** will be constructed before any site disturbances are permitted.
3. Ditches/wet swales shall be excavated to grading grade and protected with bale checks and silt fence until road and utility construction has been stabilized. Final ditch grades and filter medium shall be placed after turf has been established.
4. Topsoil, seed, erosion control blanket and necessary additional temporary erosion control BMPs (if applicable) shall be placed within 7 days of completion of any embankment.
5. Placement of riprap shall be completed within 24 hours of culvert placement, and done in one continuous operation.
6. Disturbed areas in which construction activities have ceased or will be suspended for 7 days or more shall be stabilized with temporary or permanent BMPs for erosion.

**CONTACTS**

THE SWPPP ENGINEER IS: WILL DEROCHER, P.E.
PROJECT SUPERVISOR IS: (TBD)

NAME
WILL DEROCHER, P.E.

ADDRESS
11 E. SUPERIOR ST. SUITE 420
DULUTH, MN 55802

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218.491.7384

EMAIL
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EMAIL
will.derocher@tkda.com
STORM WATER POLLUTION PREVENTION PLAN

CONSTRUCTION PRACTICES TO MINIMIZE STORM WATER CONTAMINATION

TO PREVENT STORM WATER CONTAMINATION FROM OCCURRING, THE FOLLOWING BMPS WILL BE IMPLEMENTED:

1. All areas that are rough graded must be kept in a smooth condition to allow sheet flow of storm water wherever practical and always ready for surface application of degradable or non-degradable blankets, mulch or other protective covers.

2. A stabilized construction entrance/exit will be constructed to reduce vehicle tracking of sediments off the project right of way.

3. All non-hazardous waste materials will be collected and stored in a securely lidded metal dumpster or other approved containment method at the end of each day. Any alternative to a metal dumpster must be submitted in writing for approval by the project engineer. All trash and construction debris from the site will be deposited in the dumpster. The dumpster will be emptied as necessary to function as intended for debris collection. No construction materials will be buried on-site. The contractor's erosion control supervisor will instruct all personnel regarding the correct procedure for disposal.

4. A licensed sanitary waste management contractor will collect all sanitary waste from the portable units at a rate necessary to maintain design function.

5. All vehicles on site will be monitored for leaks and receive regular preventative maintenance to reduce the chance of leakage.

6. Fertilizers will be stored in a covered shed and partially used bags will be transferred to a sealable bin to reduce chance of spillage.

7. Petroleum products will be stored in tightly sealed containers, which are clearly labeled.

8. Seed mixes will be included with all fueling sources and maintenance activities. Secondary containment measures will be installed and maintained by the contractor.

9. Any asphalt substances used on site will be applied in accordance with manufacturers recommendations.

10. All paint containers and curing compounds will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm water system but will be properly disposed of according to manufacturer's instructions.

11. Materials and equipment necessary for spill cleanup will be kept in an enclosed trailer or shed on site. Equipment will include, but not limited to, brooms, mops, dust pans, rags, gloves, absorbent (kitty litter). Oil absorbent brooms and diapers, and buckets.

12. All spills will be contained and cleaned up immediately upon discovery. Spills large enough to reach the stormwater conveyance system will be reported to the Minnesota duty officer at 1-800-422-0798.

13. Concrete truck will not be allowed to wash out or discharge surplus concrete or drum wash water on the site. Unless done in an engineered sediment containment system. The engineered system shall include the project file and written assurance that the system will work as designed and leave no discharge of concrete or concrete residue potential to waters of the state during a minimum of a 100 year storm event.

14. Form release oil used for concrete work must be applied over a pallet containing absorbent to collect excess liquid. The absorbent material will be replaced and properly disposed of when saturated.

15. Discharges from basin dewatering operations that are turbid or sediment laden shall be discharged to temporary sediment basins constructed on the site to provide treatment prior to discharge to a water of the state.

16. Clogged or compromised filters must be replaced. Where there is evidence of sediment accumulation adjacent to the inlet protection measure, deposited sediment shall be removed by the end of the same work day on which it is found or by the end of the following work day if removal by the same work day is not feasible.

17. Accumulated sediment shall be removed where the depth of sediment has reached a value of the working height of the sediment retaining device. Sediment shall be removed by the end of the work day on which it is found or by the end of the following work day if removal by the same work day is not feasible.

4. If any stockpile is to remain in place for more than 3 days, sediment and erosion control devices shall be used.

5. Water pumped or otherwise discharged from the site during construction dewatering shall be directed through effective filtering device(s), and discharged to an energy dissipating device to eliminate erosion at the outlet.

6. All exposed soil areas with a slope of 3:1 or steeper, that have a continuous positive slope to a special water must have temporary erosion protection or permanent cover within 7 days after the area is no longer actively being worked. All other slopes that have a continuous positive slope to a special water must have temporary erosion protection or permanent cover within 7 days after the area is no longer actively being worked.

7. Site dust generation must be controlled by application of water by spray trucks or similarly effective means of dust control.

8. The contractor shall take all precautionary measures to prevent appreciable soil tracking onto roadways. Where sediment has been tracked-out from the site onto the surface of off-site streets, other paved areas or sidewalks, the deposited sediment must be removed by the end of the same work day in which the trackout occurs or by the end of the next work day if trackout occurs on a non-work day. The tracked sediment must be removed by sweeping, shoveling, vacuuming or by using other similarly effective means of sediment removal. Hosing or sweeping tracked out sediment into any stormwater conveyance (unless it is connected to a sediment basin, sediment trap, or similarly effective control), storm drain inlet or surface water is prohibited.

9. Stabilized construction entrance(s) shall be removed and area restored after grading is complete.

10. JAW MnDot 1717.2 B, the contractor QC program shall ensure that a competent individual shall inspect erosion and sediment control devices weekly and after each rain event. All nonfunctional devices shall be repaired/replaced/cleaned. Maintain NPDES Log of all weekly and rain event inspections - include the corrective actions that were taken and update the SWPPP to reflect the amended plan. Inspection logs and a current SWPPP shall be maintained on site and available upon request.

11. Where not otherwise specified use Rolled Erosion Prevention Category 25 erosion control blanket (ECB) [N. American Green S150 or approved equal]. Use with seed mixture 39-311 @ .35 lbs per acre and fertilizer 10-10-10 @ 200 lbs per acre. The fertilizer, seed, and blanket shall be placed as per MnDOT 2575.5 and 2575.6. The upgrade end of each blanket strip shall be buried at least 6 inches in a vertical check slot. Staples shall be placed at seams and throughout the blanket at a maximum spacing in all directions of 2 feet.

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18. Form release oil used for concrete work must be applied over a pallet containing absorbent to collect excess liquid. The absorbent material will be replaced and properly disposed of when saturated.

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21. Accumulated sediment shall be removed where the depth of sediment has reached a value of the working height of the sediment retaining device. Sediment shall be removed by the end of the work day on which it is found or by the end of the following work day if removal by the same work day is not feasible.

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9. Stabilized construction entrance(s) shall be removed and area restored after grading is complete.
**CONSTRUCTION NOTES:**

1. **RELOCATE BENCHES TO BE WITHIN THE NEW DOG PARK ENCLOSURE.**
2. **STAGE FENCE REMOVAL TO KEEP DOG PARK OPEN FOR AS LONG AS POSSIBLE.**
3. **SEED ALL DISTURBED AREAS WITH 36-311 NATIVE SEED MIX, OUTSIDE OF THE DOG PARK AND THE 3' MAINTENANCE MOW STRIP ALONG THE TRAILS.**
4. **KEENE CREEK IS A NO MOW PARK.**

**EXISTING CONDITIONS**

- **REMOVE WOOD RETAINING WALL**
- **SEED DISTURBED AREA**
- **REMOVE MISCELLANEOUS DEBRIS**
- **SAW CUT & REMOVE BITUMINOUS ROOSEVELT ST.**
- **SALVAGE FENCE 841 LF**
- **SALVAGE BENCHES (7)**
- **TRANSMIT TREE (4)**
- **REMOVE PIPE CULVERT (85 LF)**
- **REMOVE BITUMINOUS CROSS CITY TRAIL**
- **REMOVE WOOD RETAINING WALL**
- **SEED DISTURBED AREA**
- **REMOVE BITUMINOUS BASE BID**
- **REMOVE MISCELLANEOUS DEBRIS**
- **REMOVE SIGN TYPE SPECIAL**
- **RELOCATE BENCHES TO BE WITHIN THE NEW DOG PARK ENCLOSURE.**
- **STAGE FENCE REMOVAL TO KEEP DOG PARK OPEN FOR AS LONG AS POSSIBLE.**
- **SEED ALL DISTURBED AREAS WITH 36-311 NATIVE SEED MIX, OUTSIDE OF THE DOG PARK AND THE 3' MAINTENANCE MOW STRIP ALONG THE TRAILS.**
- **KEENE CREEK IS A NO MOW PARK.**
**PROPOSED CONDITIONS**

- **PLLOT DATE:** 01/18
- **LIC. NO.:** ####
- **DATE:** 06/18/20
- **SIGNATURE:**
- **DRAWING NO.:**

**TSM MINNESOTA.**

- **218.724.8578**
- **DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF**

**DESIGNED**

K:\a-f\Duluth_City\16893000\04_Production\01_CAD\02_Sheets\16893000 - Keene Creek - PROPOSED.dwg

---

**OHP**

- **ON THIS DRAWING ADJUST SCALES ACCORDINGLY.**

**WAT**

- **WAT**
- **PARK ENTRANCE**
- **EXISTING DOG**
- **FENCING)**
- **AVOID DOGS ESCAPING ON SNOW**
- **BETWEEN THE TWO DOG PARKS, IN**
- **WAKE ZONE: FROM BRIDGE ABOVE, TO**
- **AVOID DOGS ESCAPING ON SNOW**
- **PILES, (APPROX. 50 FT OF TALLER**
- **FENCING)**

**UGP**

- **OHP**
- **OHP**

**UGFO**

- **WAT**
- **UGFO**
- **WAT**
- **WAT**
- **WAT**

**UGP**

- **OHP**
- **OHP**
- **OHP**

- **WAT**
- **WAT**
- **WAT**

**PARK MONUMENT (BY**

**OTHERS)**

- **STORMWATER TREATMENT BASIN**
- **18" CP PIPE CULVERT (84 LF)**
- **LOWER LOT GRAND AVE**
- **TRAIL**
- **6" PAVED WIDTH**
- **2' GRAVEL SHOULDERS**
- **DESIGNATED ACCESSIBLE PARKING**
- **INCLUDES PAVEMENT MARKINGS AND SIGNAGE.**

**OHP**

- **120**
- **35' MIN.**

**WAT**

- **0+00**
- **1+00**
- **1+00**
- **2+00**
- **3+00**
- **4+00**
- **5+00**
- **6+00**
- **7+00**
- **8+00**
- **9+00**
- **10+00**
- **11+00**
- **37.34**

**OHP**

- **SCALE IN FEET**
- **0 60 120 240**
TRIBUTARY OF KEENE CREEK

18" CP PIPE CULVERT
MIN 0.5% SLOPE

METAL INFORMATIONAL SIGN TYPE C
HANDICAP SIGNS
PAVT MSG PAINT

PC: 3+77.01
PT: 4+71.55
PC: 5+22.32
PT: 5+30.84
PC: 6+11.90
PT: 6+48.02
PC: 6+96.24
PT: 7+77.01

DOG PARK TRAIL PLAN & PROFILE

STATION 6+00 - 7+82

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
DULUTH, MN 55802

NOTES:
1. SEEDING AND ROLLED EROSION PREVENTION CATEGORY 50 TO BE USED IN ALL DISTURBED AREAS UNLESS OTHERWISE NOTED.

TREE LEGEND

- WHITE PINE (Pinus Strobus) - B&B 2" (6-10')
- RED OAK (Quercus Rubra) - B&B 2" #15
- SUGAR MAPLE (Acer Saccharum) - B&B 2"

SEEDING AND ROLLED EROSION PREVENTION CATEGORY 25

SEED DOG ENCLOSURE WITH SEED MIX 25-151 @120#/ACRE

SEED STORM BASIN WITH SEED MIX 33-361 @35#/ACRE

SEDIMENT CONTROL LOG TYPE COMPOST

SEDIMENT CONTROL LOG
SEEDING AND EROSION PREVENTION CATEGORY 25
STOCKPILE EROSION CONTROL PROTECTION

EROSION CONTROL SEDIMENT CONTROL LOG CROSS CITY TRAIL - ALT

SCALE IN FEET
0 50 100 200

ON THIS DRAWING ADJUST SCALES ACCORDINGLY.

MEASUREMENT AT THE BUILDING AND/OR SITE SHALL VERIFY ALL DIMENSIONS.

TRAIL REMOVAL
PREVENTION
SEEDING AND ROLLED EROSION PREVENTION CATEGORY 25 CROSS CITY TRAIL - ALT

SUGAR MAPLE (Acer Saccharum) - B&B 2"

SCALE IN FEET
0 50 100 200

SEED DOG ENCLOSURE WITH SEED MIX 25-151 @120#/ACRE

SEED STORM BASIN WITH SEED MIX 33-361 @35#/ACRE

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SEDIMENT CONTROL LOG
SEEDING AND EROSION PREVENTION CATEGORY 25
STOCKPILE EROSION CONTROL PROTECTION

EROSION CONTROL SEDIMENT CONTROL LOG CROSS CITY TRAIL - ALT

SCALE IN FEET
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TRAIL REMOVAL
PREVENTION
SEEDING AND ROLLED EROSION PREVENTION CATEGORY 25 CROSS CITY TRAIL - ALT

SUGAR MAPLE (Acer Saccharum) - B&B 2"

SCALE IN FEET
0 50 100 200

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TRAIL REMOVAL
PREVENTION
SEEDING AND ROLLED EROSION PREVENTION CATEGORY 25 CROSS CITY TRAIL - ALT

SUGAR MAPLE (Acer Saccharum) - B&B 2"