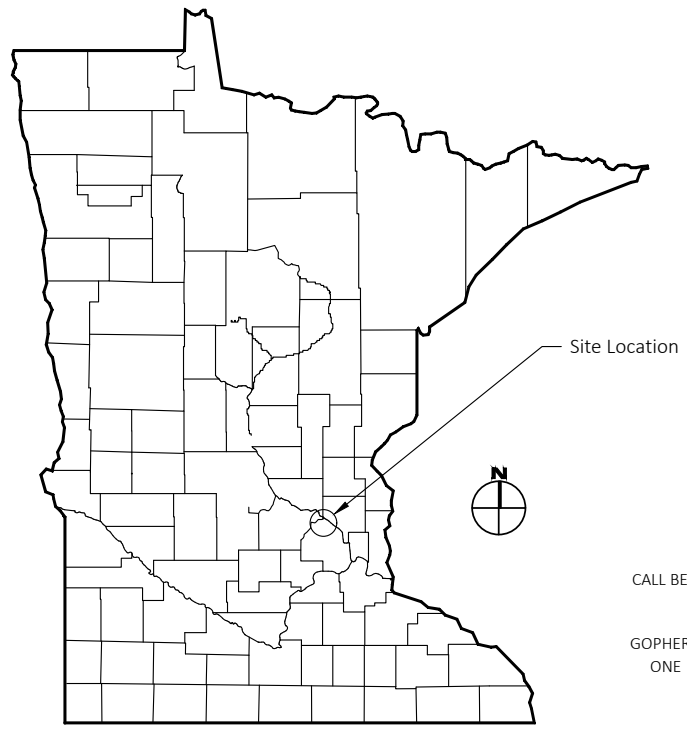


Diamond Lake Water Access

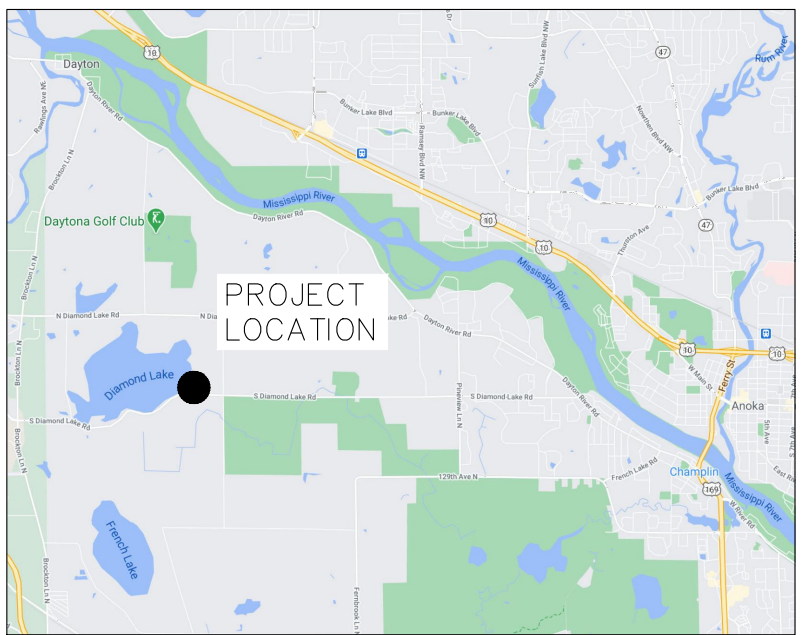
99% Plan Review
June 11, 2021



Site Location



NOTES:
 EXISTING UTILITY INFORMATION SHOWN ON THIS PLAN HAS BEEN PROVIDED BY THE UTILITY OWNER. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. NOTIFY GOPHER STATE ONE-CALL 1-800-252-1166 OR 651-454-0002.
 THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."
 THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS IN PROJECT MANUAL, DIVISION 1, SECTION 1.531 (01 30 00) INVASIVE SPECIES PREVENTION IN COMPLETING THE WORK
 ALL NECESSARY EASEMENTS, PERMITS AND RIGHTS OF WAY FOR THE PROJECT SHALL BE SECURED BY THE OWNER OR SPONSOR BEFORE CONSTRUCTION WORK IS COMMENCED UNLESS OTHERWISE SPECIFIED.
 VERIFY ALL DIMENSIONS AND LOCATIONS ON THE JOB. REPORT ALL DISCREPANCIES TO OPERATIONS SERVICES DIVISION.
 NOTE WORK IN WATER EXCLUSION DATES OUTLINED IN DOW'S PERMITS.
 DO NOT SCALE DRAWINGS.



SITE MAP

| Sheet List Table | |
|------------------|------------------------|
| Sheet Number | Sheet Title |
| L-001 | Title Sheet |
| L-002 | Estimate of Quantities |
| L-101 | Clear & Grubbing |
| L-102 | Layout Plan |
| L-103 | Grading Plan |
| L-104 | Planting Plan |
| L-301 | SWPPP |
| L-302 | SWPPP |
| L-501 | Details |
| L-502 | Details |
| L-503 | Details |
| L-504 | Ramp Details |
| L-505 | Planting Details |
| L-506 | Planting Details |

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| Operation Services Division Approval | Division Approval | | 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 Landscape Architect under the laws of the state of Minnesota. Name: Trent Luger License # 41457 Date: 6.11.2021 | Water Access Diamond Lake Parks & Trails Hennepin County City Of Dayton Lat/Long: 45.199341° 93.496076° | <table border="1"> <thead> <tr> <th>Date</th> <th>By</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table> | Date | By | | | | | | | Title: Title Sheet Survey: AD 08/31 Designed: Trent Luger Drawn: JS 09/20 Drawn: TL XX/XX Checked: WL 09/01 Checked: JP XX/XX Horz. datum: NAD83('96 ADJ) Vert. datum: NAVD 88 | Sheet: L-001 CC2: 8A113 File #: WAS00685.00.17.30 Site #: R290841 |
|--------------------------------------|-------------------|--|---|--|---|------|----|--|--|--|--|--|--|--|--|
| Date | By | | | | | | | | | | | | | | |
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SCHEDULE OF ITEMS (REFERENCE ONLY)

Section

| Reference | Description | Unit | Quantity |
|-----------|---|------|----------|
| 013000 | Inspect & Maintain Erosion Control as per MPCA General Storm Water Permit | L.S. | 1 |
| 013000 | Erosion Control Supervisor | L.S. | 1 |
| 015000 | Mobilization | L.S. | 1 |
| 015000 | Traffic Control & Temporary Signage | L.S. | 1 |
| 017000 | Construction Stakes, Lines, and Grades | L.S. | 1 |
| 024118 | Remove Boat Ramp Planks | LS | 1 |
| 311100 | Grubbing Trees & Shrubs | L.S. | 1 |
| 311100 | Tree Protection Fence | LF | 110 |
| 312300 | Obliteration (P) | S.Y. | 320 |
| 312300 | Granular Borrow | CY | 925 |
| 312300 | Muck Excavation/Disposal | CY | 200 |
| 312300 | Excavation (P) | C.Y. | 2,540 |
| 312313 | Subgrade Preparation (P) | S.Y. | 2,760 |
| 312500 | 8"-10" Diameter Sediment Control Log, Type D Woodchip | L.F. | 2,100 |
| 312500 | Erosion Control Blanket, Category 3N, 2S (natural netting) | S.Y. | 700 |
| 312500 | Still Water Flotation Silt Curtain | L.F. | 150 |
| 312500 | 8"-10" Diameter Sediment Control Log, Type G Coir | L.F. | 1,300 |
| 321123 | Compacted Class 5 Aggregate Surfacing (P) | TON | 1,100 |
| 321123 | Compacted Class 2 Aggregate Surfacing (P) | TON | 185 |
| 329200 | Turf Establishment | LS | 1 |
| 329300 | Deciduous Overstory Tree & Mulch | EACH | 10 |
| 329300 | Deciduous Shrub & Mulch | EACH | 4 |
| 334100 | 15" RC Pipe Culvert | L.F. | 52 |
| 334100 | 15" RC Pipe Apron | EACH | 2 |
| 344114 | Van Accessible Signs R7-8A&B w/Galvanized U-Channel Post | EACH | 1 |
| 344114 | No Parking Sign w/Galvanized U-Channel Post | EACH | 1 |
| 344114 | R1-1 Stop Sign 30x30 w/Galvanized U-Channel | EA | 1 |
| 348500 | Marine Work Ramp | L.S. | 1 |
| 347113 | Traffic Control Boulders | CY | 11 |
| 348500 | Marine Work Ramp | L.S. | 1 |

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 Name: Trent Luger License #: 41457
 Date: 6.11.2021

Water Access
Diamond Lake
 Parks & Trails
 Hennepin County City Of Dayton
 Lat/Long: 45.199341° 93.496076°

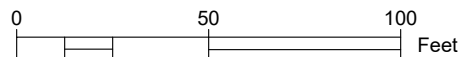
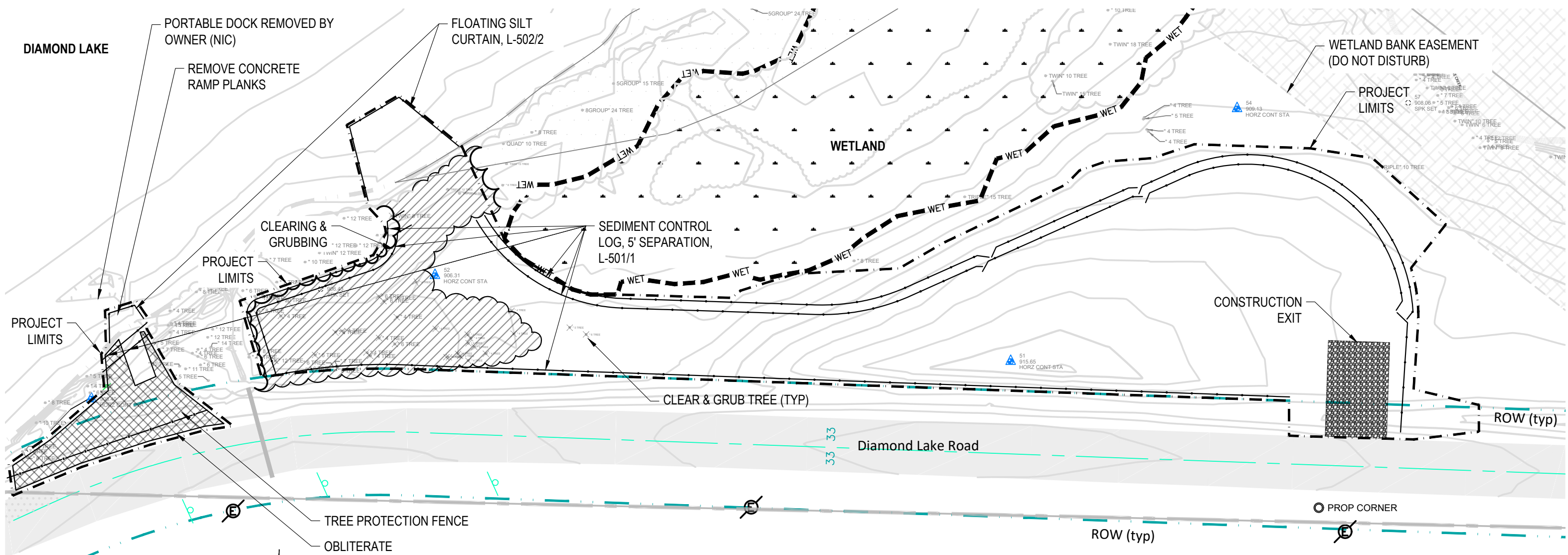
| Revisions | |
|-----------|----|
| Date | By |
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| Estimated Quantities | | | |
|-----------------------------|----------|----------------------|-------------|
| Survey: | AD 08/31 | Designed: | Trent Luger |
| Drawn: | JS 09/20 | Drawn: | TL XX/XX |
| Checked: | WL 09/01 | Checked: | JP XX/XX |
| Horz. datum: NAD83('96 ADJ) | | Vert. datum: NAVD 88 | |


Sheet: **L-002**
 CC2: 8A113
 File #: WAS00685.00.17.30
 Site #: R290841

NOTES:

1. EROSION CONTROL BMP'S SHALL BE IN PLACE AND APPROVED PRIOR TO CONSTRUCTION ACTIVITIES.
2. NO TREES GREATER THAN 4" DBH MAY BE CLEARED JUNE 1 - AUGUST 15.
3. NOT ALL INDIVIDUAL TREES APPEAR ON THE SURVEY. THOSE TREES REQUIRING REMOVAL ARE INCIDENTAL TO CLEARING & GRUBBING.
4. ALL REMOVALS AND OBLITERATION AT EXISTING RAMP/PARKING AREA TO OCCUR AFTER NEW RAMP AND PARKING AREA ARE AVAILABLE FOR PUBLIC USE AND APPROVED BY ENGINEER.
5. OBLITERATION: STRIP 6" BELOW EXISTING GRADE, SCARIFY TO A DEPTH OF 12", PLACE 6" OF TOPSOIL, SHAPE PER GRADING PLAN, AND PLANT PER GROUND COVER REQUIREMENTS.

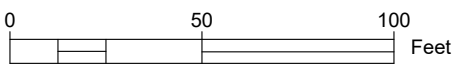
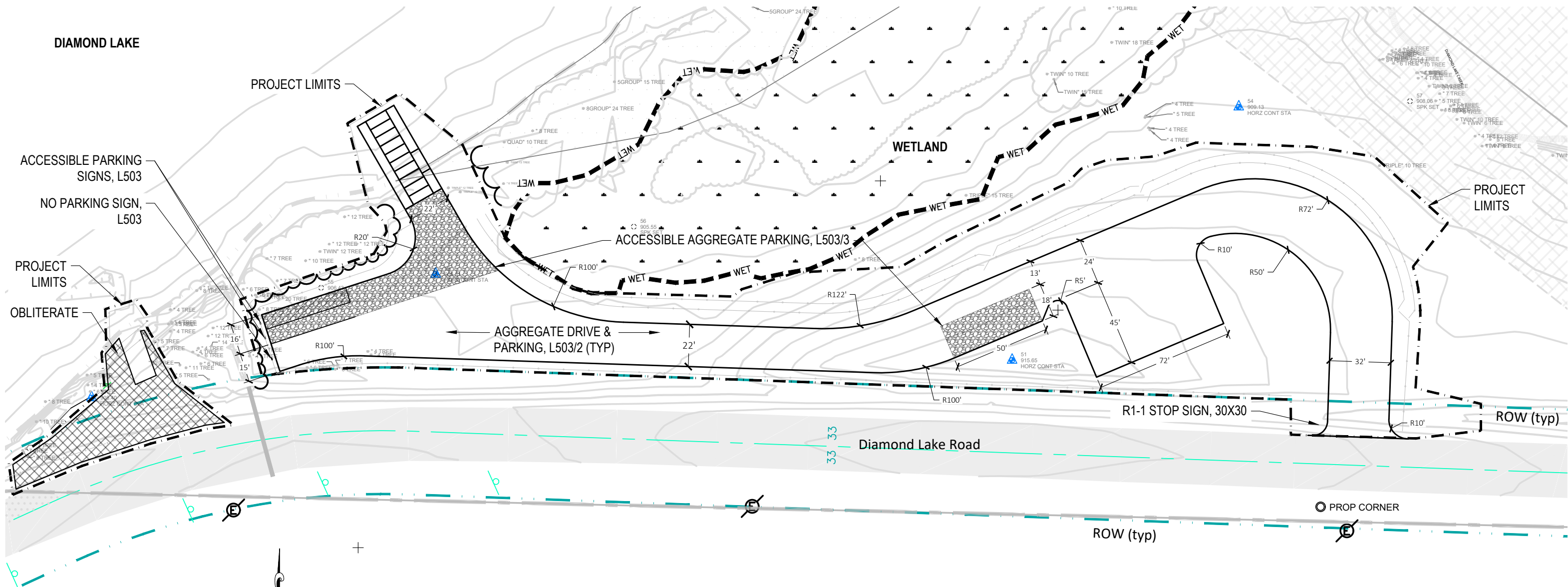


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| Date | By | | | | | | | | | | | | | | | | |
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NOTES:

1. ALL ITEMS ARE CONTRACTOR FURNISHED AND INSTALLED UNLESS STATED OTHERWISE.
2. MINIMIZE SOIL COMPACTION. KEEP EQUIPMENT OUT OF EXISTING AND FUTURE LAWN, GRASS, PLANTED, AND STORMWATER AREAS WHEN THE SOIL IS WET AND SUSCEPTIBLE TO COMPACTION.



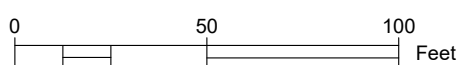
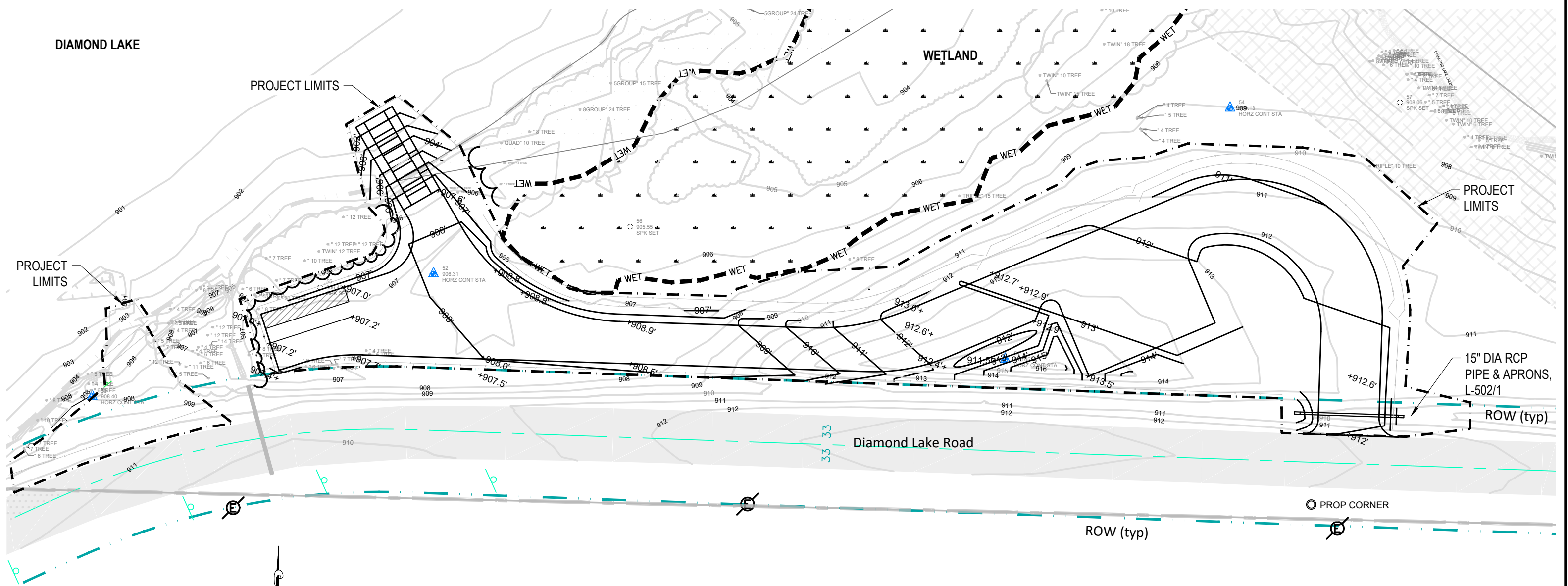
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|--|---|--|--|--|---|---|---|
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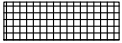


1. ALL EXCESS AND UNSUITABLE MATERIAL TO BE HAULED OFF SITE.

Diamond Lake Water Levels (NAVD 88)
 Ordinary High Water Level (OHW) Elevation: 904.57 ft
 Highest Recorded: 906.37 ft (04/27/1992)
 Lowest Recorded: 903.27 ft (12/19/1958)



| | | | | | | | |
|--|---|--|---|--|----------------------|--|---|
|  | 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 Landscape Architect under the laws of the state of Minnesota. Name: <u>Trent Luger</u> License #: <u>41457</u> Date: <u>6.11.2021</u> | | Water Access Diamond Lake Parks & Trails Hennepin County City Of Dayton Lat/Long: 45.199341° 93.496076° | | Revisions Date By | Title: Grading Plan Survey: AD 08/31 Designed: Trent Luger Drawn: JS 09/20 Drawn: TL XX/XX Checked: WL 09/01 Checked: JP XX/XX Horz. datum: NAD83('96 ADJ) Vert. datum: NAVD 88 | Sheet: L-103 CC2: 8A113 File #: WAS00685.00.17.30 Site #: R290841 |
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KEY

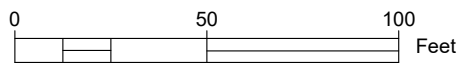
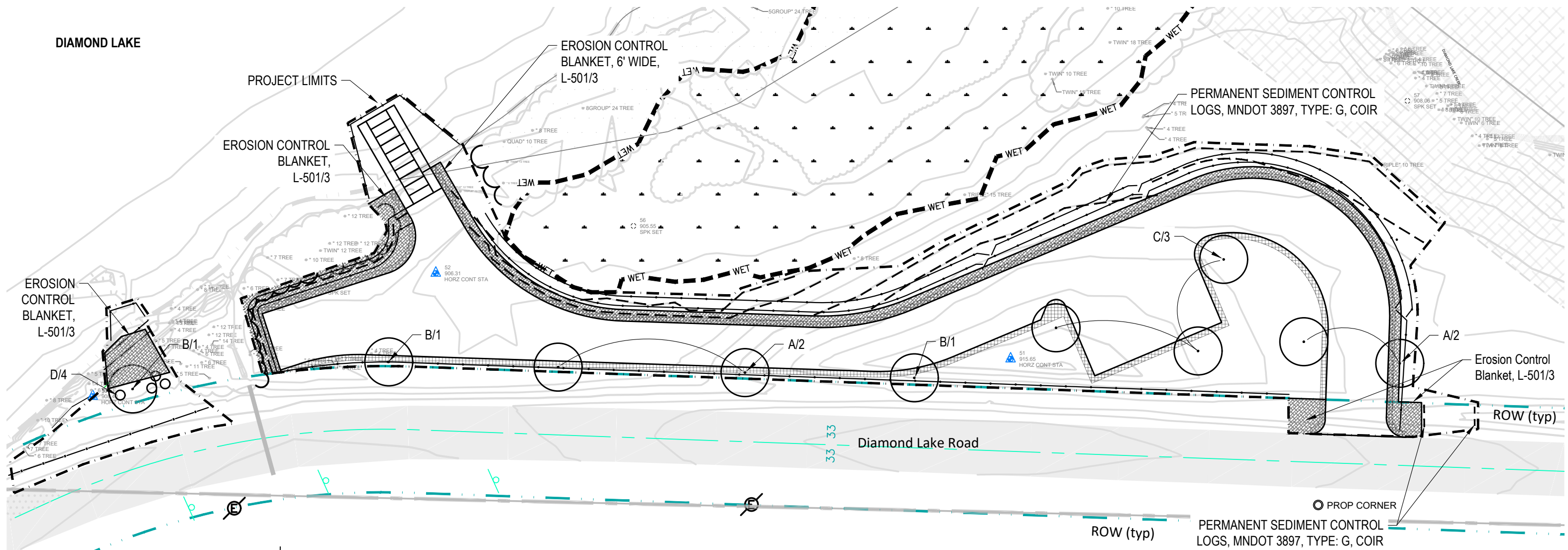
-  DNR ALL PURPOSE SEED MIX & WEED FREE STRAW MULCH, 0.1 ACRES
-  REMAINING MESIC PRAIRIE SOUTHEAST 35-641 SEED MIX & WEED AREAS FREE STRAW MULCH, 0.4 ACRES
-  CAT 3 EROSION CONTROL BLANKET, NATURAL NETTING


PLANT LIST

| KEY | COMMON NAME (SCIENTIFIC) | SIZE | ROOT | GAL | QTY |
|-----|--------------------------------|--------|------|-----|-----|
| A | RED MAPLE (ACER AMERICANA) | 1" CAL | CONT | 10 | 4 |
| B | BUR OAK (QUERCUS MACROCARPA) | 1" CAL | CONT | 10 | 3 |
| C | RED OAK (QUERCUS RUBRA) | 1" CAL | CONT | 10 | 3 |
| D | GRAY DOGWOOD (CORNUS RACEMOSA) | 18" HT | CONT | 2 | 4 |

NOTES:

1. FINE GRADE ALL DISTURBED AREAS
2. TOPDRESS ALL SEED AREAS (EXCLUDING STORMWATER BMO'S) WITH 4" OF TOPSOIL, SEED MIX, AND WEED FREE STRAW MULCH.
3. SEE PLAN SHEET L-505 & L-506 FOR PLANTING DETAILS



| | | | | | | | | | | |
|--|---|--|--|--|--|--|--|--|---------------------|--|
|  | 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 Landscape Architect under the laws of the state of Minnesota. | | Water Access Diamond Lake Parks & Trails | | Revisions Date _____ By _____ | | Title: Planting Plan | | Sheet: L-104 | |
| | Name: <u>Trent Luger</u> License #: <u>41457</u> Date: <u>6.11.2021</u> | | Hennepin County City of Dayton Lat/Long: <u>45.199341° 93.496076°</u> | | Survey: AD 08/31 Designed: <u>Trent Luger</u> Drawn: JS 09/20 Drawn: <u>TL XX/XX</u> Checked: WL 09/01 Checked: <u>JP XX/XX</u> Horiz. datum: <u>NAD83('96 ADJ)</u> Vert. datum: <u>NAVD 88</u> | | File #: <u>WAS00685.00.17.30</u> Site #: <u>R290841</u> | | | |

5.1 Stormwater Pollution Prevention Plan (SWPPP) Responses

- 5.4 Install sediment control logs as indicated on contract documents prior to clearing and grubbing. If sediment control logs are overloaded or require excessive maintenance install additional sediment control practices or redundant bmp's to eliminate the overloading. The project does not trigger the permanent stormwater requirement however, the DNR is voluntarily providing. Because of the high ground water elevation all of the permanent stormwater treatments areas are lined filtration basins.
- 5.5 Construction documents show the location, type and detailing of temporary and permanent erosion prevention and sediment control BMPs.
- 5.6 The MIDS calculator version 3 was used to design the temporary sediment basins and any of the permanent stormwater treatment systems required in Section 15.
- 5.7 The Schedule of Items includes quantities anticipated at the start of the project and for the life of the project for all erosion prevention and sediment control BMPs.
- 5.8 Pre-construction impervious surface, 0.07 acres. Post-construction impervious surface, 0.50 acres.
- 5.9 The SWPPP includes a site map with existing and final grades, including drainage area boundaries, directions of flow and all discharge points where stormwater is leaving the site or entering a surface water. The SWPPP indicates the areas of steep slopes, impervious surfaces, soil types and locations of potential pollutant-generating activities as identified in Section 12.
- 5.10 The SWPPP includes a map of all surface waters, existing wetlands, and stormwater ponds or basins within one mile (aerial radius measurement) from the project boundaries that will receive stormwater from the construction site, during or after construction. The SWPPP identifies surface waters are special or impaired waters.

| Name of Water Body | Lake/Stream ID # | Special or Impaired Water | TMDL |
|--------------------|------------------|---------------------------|------|
| Diamond Lake | 27-0125-00 | Impaired | AQR |

- 5.11 Not Applicable
- 5.12 The SWPPP identifies locations of 50' buffer zones as required in item 9.17 and 100' permanent buffer zones as required in item 23.11.
- 5.13 Not Applicable or Compliance with the following requirements is infeasible, documentation is in the SWPPP:
 - a. temporary sediment basins as described in Section 14 (Temporary Sediment Basins); and
 - b. for linear projects, if the permanent stormwater treatment system cannot be constructed within the right-of-way, a reasonable attempt must be made to obtain additional right-of-way (item 15.9); and
 - c. buffer zones as described in item 9.17 and item 23.11.
- 5.14 Not Applicable
- 5.15 Not Applicable
- 5.16 The project does not include any stormwater mitigation measures to be part of the final project in any environmental review document, endangered species review, archeological or other required local, state or federal review conducted for the project.
- 5.17 The SWPPP describes the methods used for permanent cover of all exposed soil areas.
- 5.18 SWPPP identifies locations of areas where construction will be phased to minimize the duration of exposed soil.
- 5.19 The project has a discharge point within one (1) mile (aerial radius measurement) of and which flows to an impaired water.
- 5.20 SWPPP Preparation: Trent Luger, Training Course & Date: Design of Construction SWPPP Recertification, June 2018

Overseeing implementation of, revising and or amending the SWPPP and individuals performing inspections for the project within 72 hours upon request by the MPCA: Yancey Stam, Training Course & Date: Construction Site Management Recertification, June 2019

Individuals performing or supervising the installation, maintenance and repair of bmps.

Name: _____

Training Course & Date(s): _____

- 5.21 The person knowledgeable and experienced in the application of erosion prevention and sediment control BMPs who will coordinate with all contractors, subcontractors, and operators on-site to oversee the implementation of the SWPPP
Name: _____
- 5.22 Not Applicable, no chemicals or chemical treatment systems are specified to enhance the sedimentation process.
- 5.23 The person responsible for long-term operation and maintenance of permanent stormwater treatment systems is the DNR Parks & Trails Area 3B Supervisor.
- 5.24 Soil compaction will be minimized by keeping all construction activity within the project limits and limiting earthwork in seeded areas when the soil is wet. Topsoil will be stripped and reused on site.
- 5.25 Not Applicable. There is no known groundwater or soil contamination.
- 5.26 The SWPPP accounts for the following factors in designing temporary erosion prevention and sediment control BMPs:
 - a. the expected amount, frequency, intensity, and duration of precipitation; and
 - b. the nature of stormwater runoff and run-on at the site, including factors such as expected flow from impervious surfaces, slopes, and site drainage features; and
 - c. the stormwater volume, velocity, and peak flowrates to minimize discharge of pollutants in stormwater and to minimize channel and streambank erosion and scour in the immediate vicinity of discharge points; and
 - d. the range of soil particle sizes expected to be present.

CERTIFICATIONS:

| | | |
|---------------------------|-----------------|----------------|
| MnDNR | Y. STAM | (651) 259-5804 |
| OWNER | CONTACT PERSON | |
| CONSTRUCTION SITE MANAGER | U of M | 31 May 2022 |
| CERTIFICATION | CERTIFYING BODY | EXPIRATION |



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 Landscape Architect under the laws of the state of Minnesota.
Name: Trent Luger License #: 41457
Date: 6.11.2021

Water Access
Diamond Lake
Parks & Trails
Hennepin County City Of Dayton
Lat/Long: 45.199341° 93.496076°

| Revisions | |
|-----------|----|
| Date | By |
| | |
| | |
| | |

| Title: SWPPP | | | |
|---|----------|-----------|-------------|
| Survey: | AD 08/31 | Designed: | Trent Luger |
| Drawn: | JS 09/20 | Drawn: | TL XX/XX |
| Checked: | WL 09/01 | Checked: | JP XX/XX |
| Horz. datum: NAD83(96 ADJ) Vert. datum: NAVD 88 | | | |

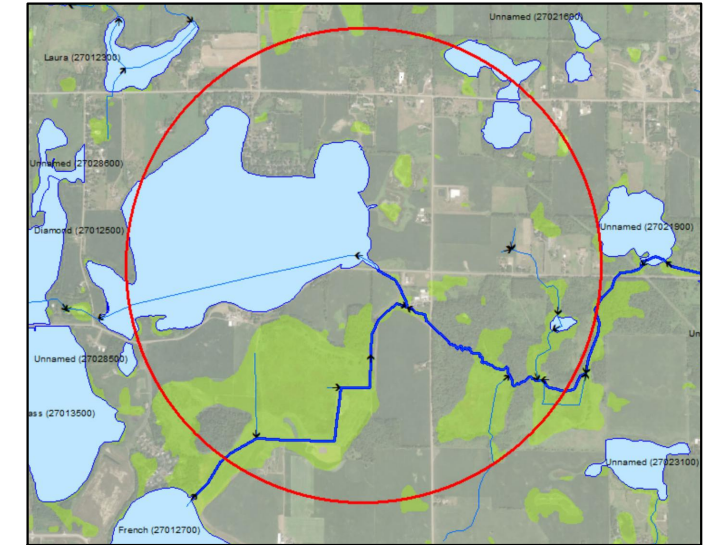
Sheet: **L-301**
CC2: 8A113
File #: WAS00685.00.17.30
Site #: R290841

LEGEND

- STORMWATER DISCHARGE
- PRE-CONSTRUCTION RUNOFF FLOW DIRECTION ARROWS
- POST-CONSTRUCTION RUNOFF FLOW DIRECTION ARROWS
- 50' UNDISTURBED BUFFER ZONE FROM SURFACE WATER/WETLAND
- IMPERVIOUS

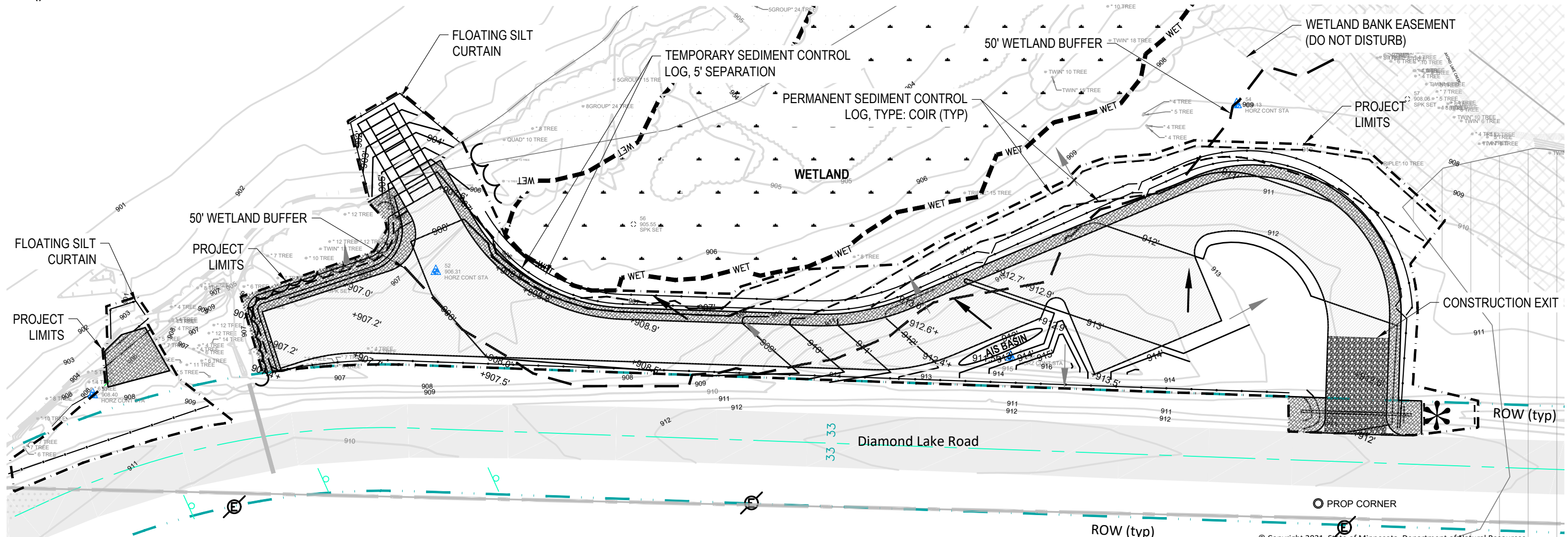
- CORDOVA LOAM (L23A)
HYDROLOGIC SOIL GROUP: C/D
- ANGUS LOAM (L37B)
HYDROLOGIC SOIL GROUP: C
- DUNDAS-CORDOVA COMPLEX (L45A)
HYDROLOGIC SOIL GROUP: C/D
- TADKEE-TADKEE DEPRESSIONAL (L64A)
HYDROLOGIC SOIL GROUP: B/D

1 MILE SWPPP MAP

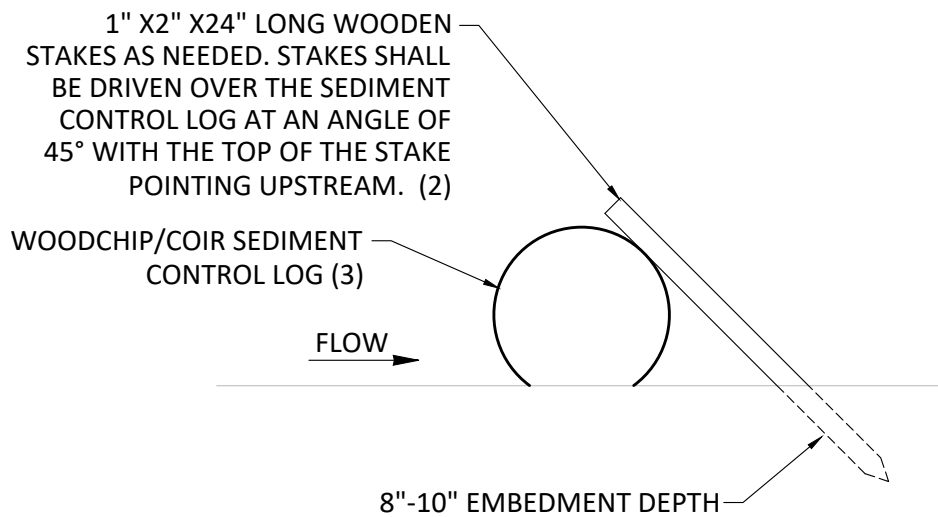


SWPPP NOTES:

- () DIAMOND LAKE HAS AN EPA-APPROVED IMPAIRMENT FOR NUTRIENT. THIS IMPAIRMENT IS CONSIDERED TO BE CONSTRUCTION RELATED PARAMETERS AND REQUIRE THE ADDITIONAL BEST MANAGEMENT PRACTICES (BMPs) FOUND IN ITEMS 23.9 OF THE PERMIT
- () CONTRACTOR MUST IMMEDIATELY INITIATE STABILIZATION OF EXPOSED SOIL AREAS, AS DESCRIBED IN ITEM 23.9, AND COMPLETE THE STABILIZATION WITHIN SEVEN (7) CALENDAR DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE TEMPORARILY OR PERMANENTLY CEASES.
- () DRAINAGE AREA BOUNDARY: PROJECT DRAINS INTO DIAMOND LAKE.
- () STEEP SLOPES (3:1 OR GREATER): NONE PRESENT.
- () SEE PERMIT ITEM 22.1 FOR WETLAND DISCHARGE REQUIREMENTS.



| | | | | | | |
|--|---|--|---|---|---|---|
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| | Hennepin County City Of Dayton Lat/Long: 45.199341° 93.496076° | | © Copyright 2021. State of Minnesota, Department of Natural Resources | | | |

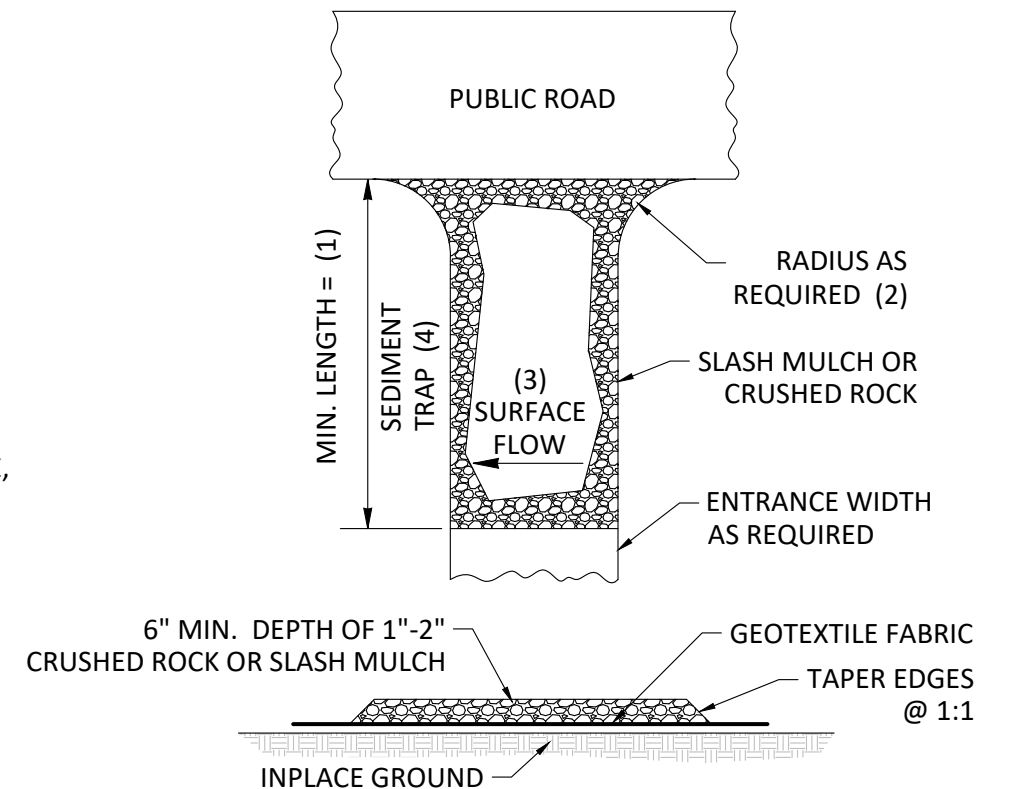


NOTES:

- 1 SPACE BETWEEN STAKES SHALL BE A MAXIMUM OF 1' FOR DITCH CHECKS.
- (2) PLACE STAKES AS NEEDED TO PREVENT MOVEMENT OF SEDIMENT CONTROL LOGS PLACED ON SLOPES OR AS NEEDED DUE TO OTHER FACTORS. STAKES SHALL BE INCIDENTAL.
- (3) USE WOODCHIP FOR TEMPORARY LOCATIONS AND COIR FOR PERMANENT LOCATIONS.

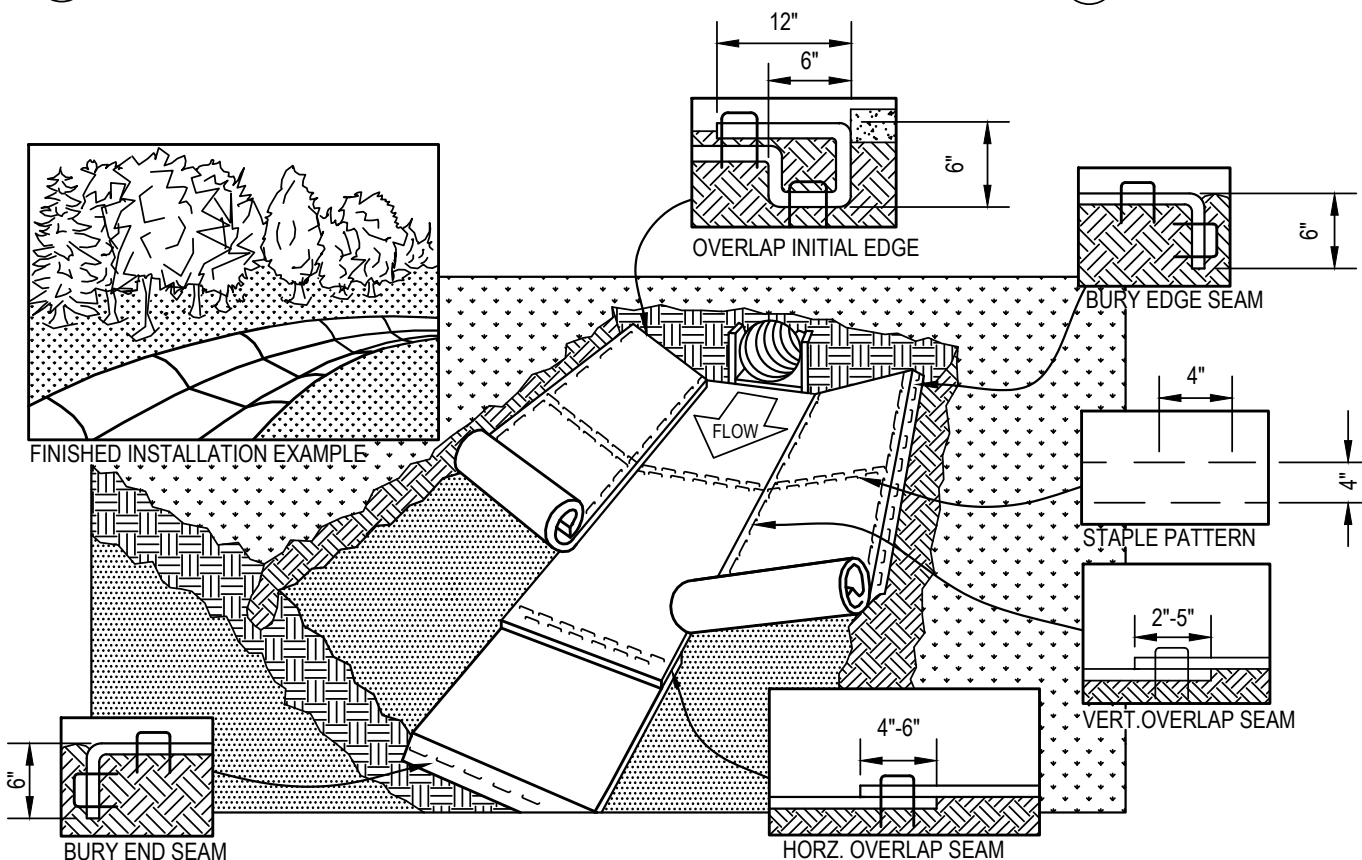
NOTES:

- (1) MINIMUM LENGTH SHALL BE THE GREATER OF 50 FEET OR A LENGTH SUFFICIENT TO ALLOW A MINIMUM OF 5 TIRE ROTATIONS ON THE PROVIDED PAD. MINIMUM LENGTH SHALL BE CALCULATED USING THE LARGEST TIRE WHICH BE USED IN TYPICAL OPERATIONS.
- (2) PROVIDE RADIUS OR WIDEN PAD SUFFICIENTLY TO PREVENT VEHICLE TIRES FROM TRACKING OFF OF PAD WHEN LEAVING SITE.
- (3) IF RUNOFF FROM DISTURBED AREAS FLOWS TOWARD CONSTRUCTION EXITS, PREVENT RUNOFF FROM DRAINING DIRECTLY TO PUBLIC ROAD OVER CONSTRUCTION EXIT BY CROWNING THE EXIT OR SLOPING TO ONE SIDE. IF SURFACE GRADING IS INSUFFICIENT, PROVIDE OTHER MEANS OF INTERCEPTING RUNOFF.
- (4) IF RUNOFF FROM CONSTRUCTION EXITS WILL DRAIN OFF OF PROJECT SITE, PROVIDE SEDIMENT TRAP WITH STABILIZED OVERFLOW.
- 5 IF A TIRE WASH OFF IS REQUIRED THE CONSTRUCTION EXITS SHALL BE GRADED TO DRAIN THE WASH WATER TO A SEDIMENT TRAP.
- 6 MAINTENANCE OF CONSTRUCTION EXITS SHALL OCCUR WHEN THE EFFECTIVENESS OF SEDIMENT REMOVAL HAS BEEN REDUCED. MAINTENANCE SHALL CONSIST OF REMOVING SEDIMENT AND CLEANING THE MATERIALS OR PLACING ADDITIONAL MATERIAL (SLASH MULCH OR CRUSHED ROCK) OVER SEDIMENT FILLED MATERIAL TO RESTORE.



1 Sediment Control Log

2 Construction Exit

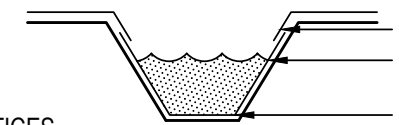


NOTES:

1. EROSION CONTROL BLANKET INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MODIFIED MNDOT SPEC. 3885.2, TABLE 3885-3. CATEGORY 3N, STRAW, 2S. NETTING OPENING OF 1.5IN X 1.5IN, NATURAL MATERIAL.
2. IN LOOSE SOIL CONDITIONS, USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY ANCHOR THE BLANKETS, CONTRACTOR RESPONSIBLE FOR MAINTAINING EROSION CONTROL THROUGH VEGETATIVE ESTABLISHMENT.
3. HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IN NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE.

CRITICAL POINTS

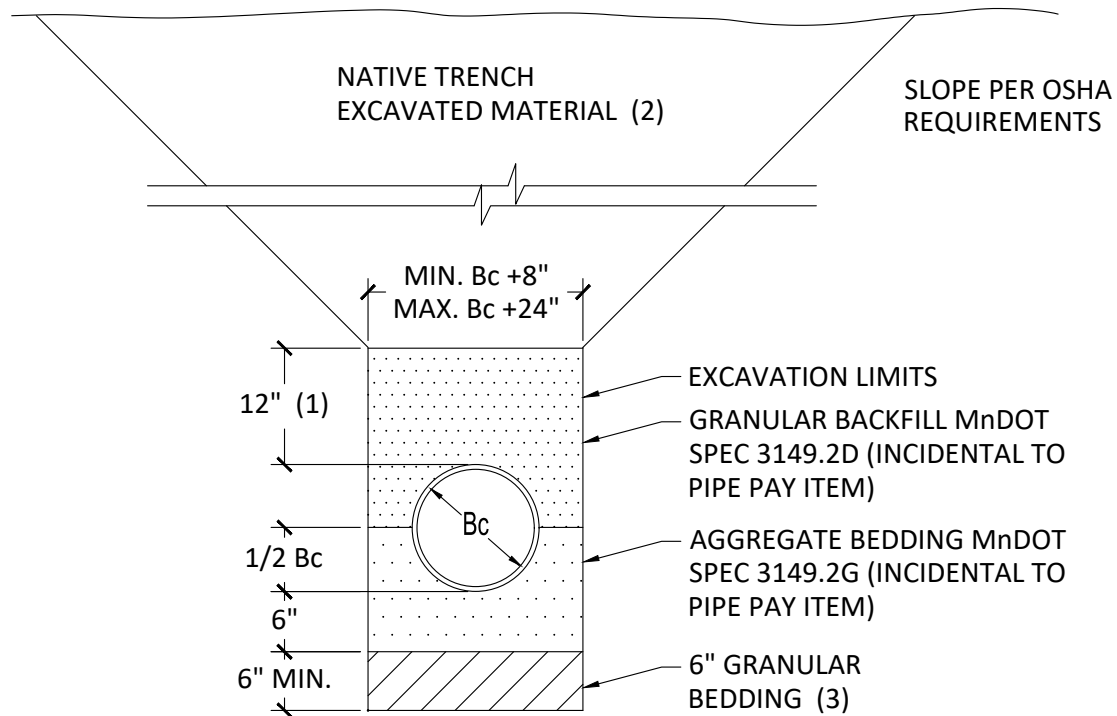
- A. OVERLAPS AND SEAMS
- B. PROJECTED WATER LINE
- C. CHANNEL BOTTOM / SIDE SLOPE VERTICES



3 Erosion Control Blanket

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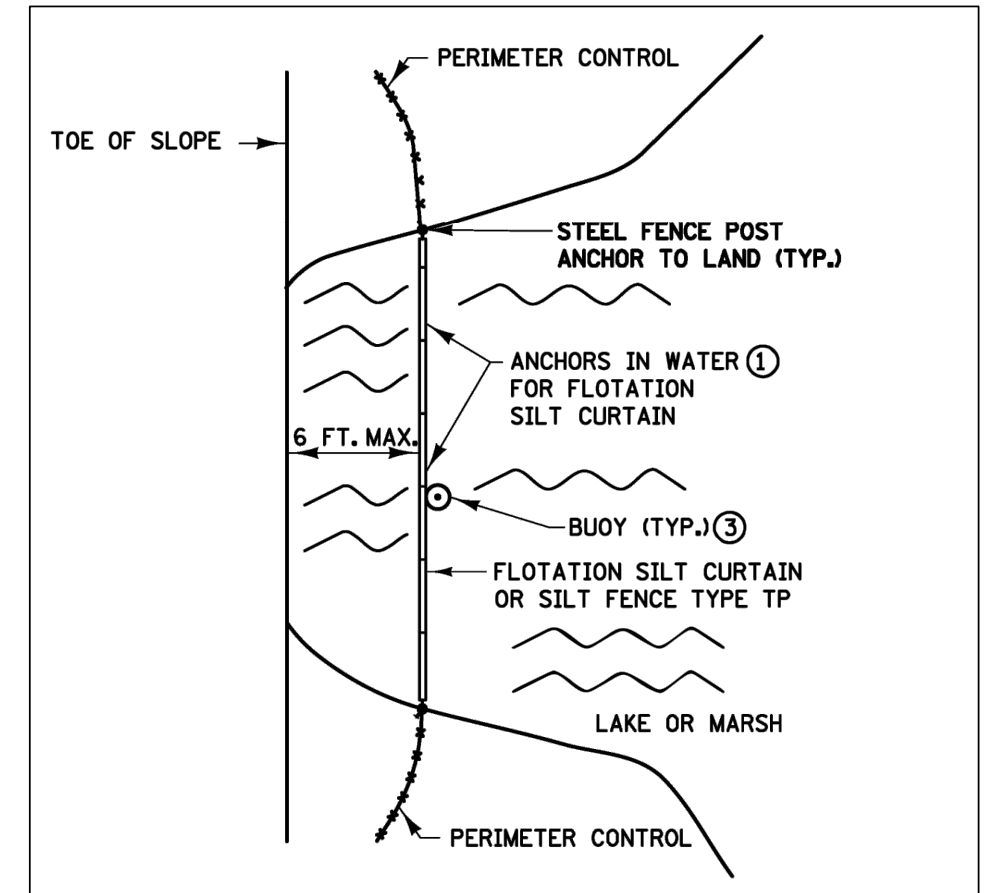
| | I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws of the state of Minnesota. Name: <u>Trent Luger</u> License #: <u>41457</u> Date: <u>6.11.2021</u> | | Water Access Diamond Lake Parks & Trails | | Hennepin County City of Dayton Lat/Long: 45.199341° 93.496076° | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Revisions</th> </tr> <tr> <th>Date</th> <th>By</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table> | Revisions | | Date | By | | | | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4">Details</th> </tr> </thead> <tbody> <tr> <td>Survey:</td> <td>AD 08/31</td> <td>Designed:</td> <td>Trent Luger</td> </tr> <tr> <td>Drawn:</td> <td>JS 09/20</td> <td>Drawn:</td> <td>TL XX/XX</td> </tr> <tr> <td>Checked:</td> <td>WL 09/01</td> <td>Checked:</td> <td>JP XX/XX</td> </tr> <tr> <td colspan="2">Horz. datum: NAD83('96 ADJ)</td> <td colspan="2">Vert. datum: NAVD 88</td> </tr> </tbody> </table> | Details | | | | Survey: | AD 08/31 | Designed: | Trent Luger | Drawn: | JS 09/20 | Drawn: | TL XX/XX | Checked: | WL 09/01 | Checked: | JP XX/XX | Horz. datum: NAD83('96 ADJ) | | Vert. datum: NAVD 88 | | Sheet: L-501 CC2: 8A113 File #: WAS00685.00.17.30 Site #: R290841 |
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| | Revisions | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date | By | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Details | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Drawn: | JS 09/20 | Drawn: | TL XX/XX | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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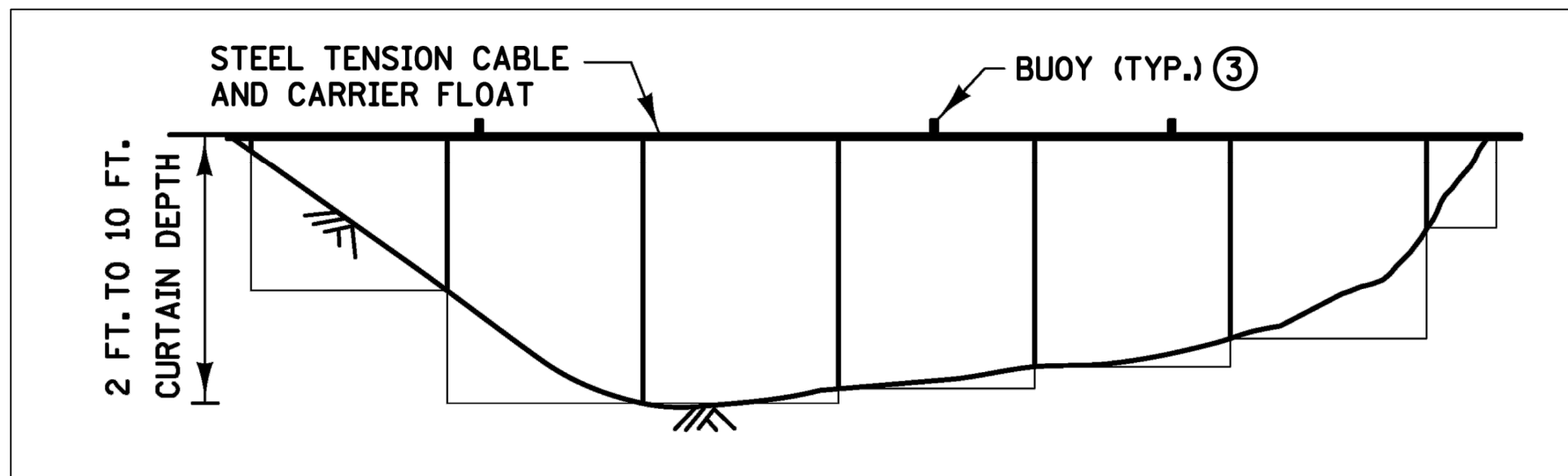
NOTES:

- (1) IF THIS DIMENSION DECREASES THE BEDDING CONDITIONS WILL CHANGE. A HIGHER LEVEL BEDDING CONDITION SHALL BE SOLELY AT THE CONTRACTOR'S EXPENSE.
- (2) GRANULAR MATERIAL WILL BE CONSIDERED AS AN INCIDENTAL ITEM.
- (3) FOR ROCK OR OTHER INCOMPRESSIBLE MATERIALS, THE TRENCH SHOULD BE OVER EXCAVATED A MINIMUM OF 6" & REFILLED WITH GRANULAR MATERIAL. THIS ITEM WILL BE ELIGIBLE FOR EXTRA PAYMENT, IF REQUIRED.
- 4 THIS PROCEDURE IS NOT INTENDED TO REPLACE DEWATERING SYSTEMS IN WET CONDITIONS.

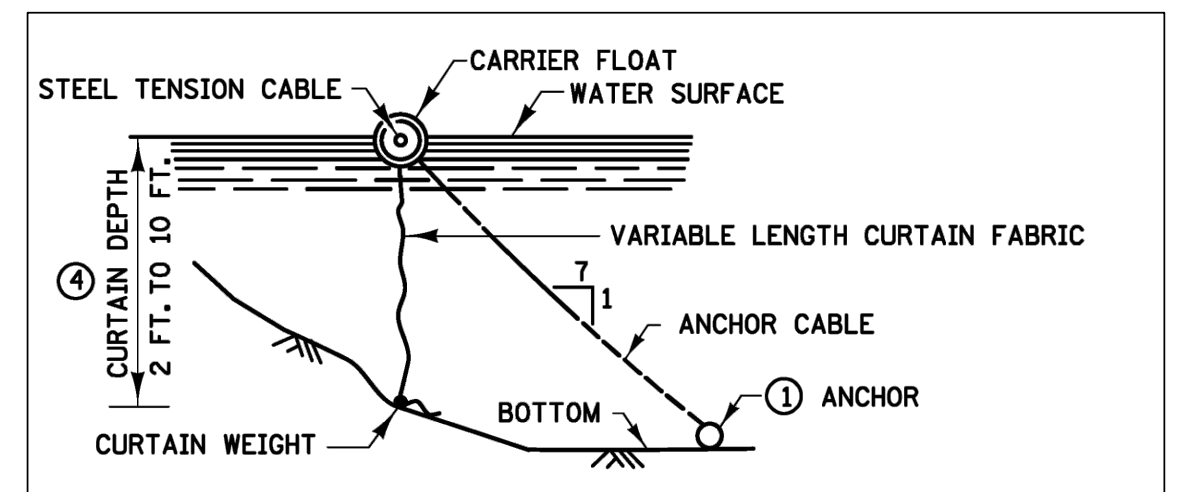
1 Culvert Bedding



PLAN



ELEVATION



SECTION

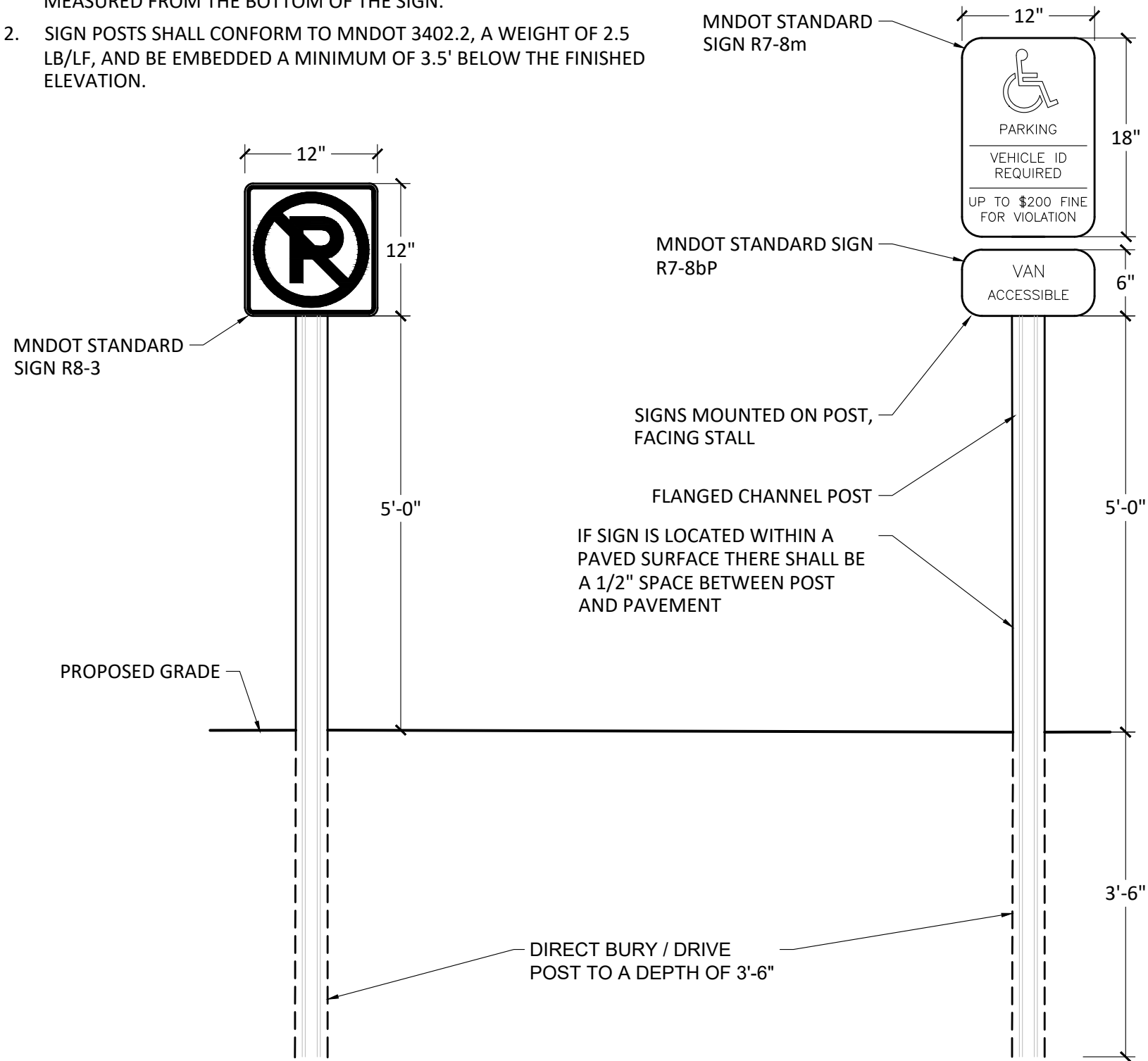
2 Floating Silt Curtain

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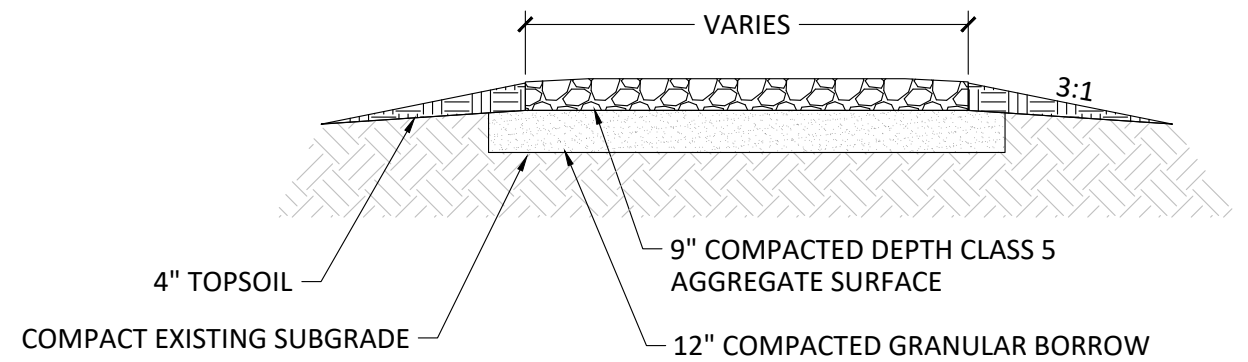
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|--|---|--|---|--|--|--|---|
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NOTES:

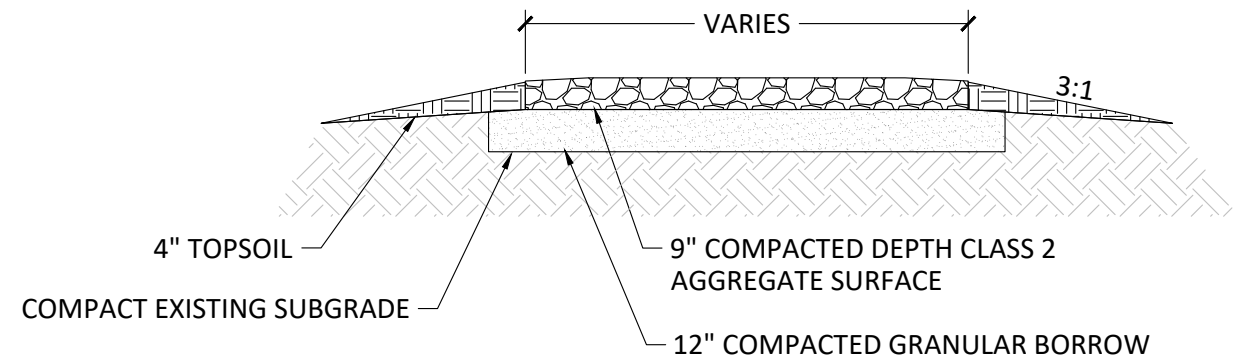
1. CENTER ON THE HEAD END OF THE ACCESSIBLE PARKING STALL &/OR ACCESS AISLE MOUNTED 60" MINIMUM AND 66" MAXIMUM ABOVE THE FLOOR OF THE ACCESSIBLE PARKING STALL &/OR ACCESS AISLE, MEASURED FROM THE BOTTOM OF THE SIGN.
2. SIGN POSTS SHALL CONFORM TO MNDOT 3402.2, A WEIGHT OF 2.5 LB/LF, AND BE EMBEDDED A MINIMUM OF 3.5' BELOW THE FINISHED ELEVATION.



1 Accessible Parking Signs



2 Aggregate Drive & Parking



NOTES:

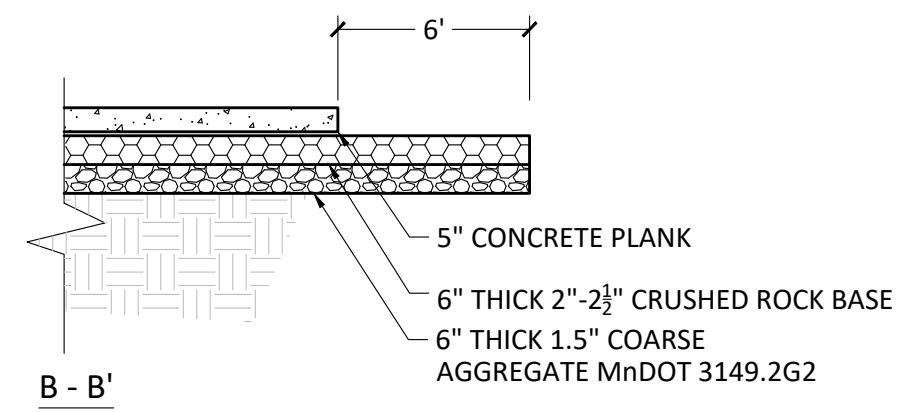
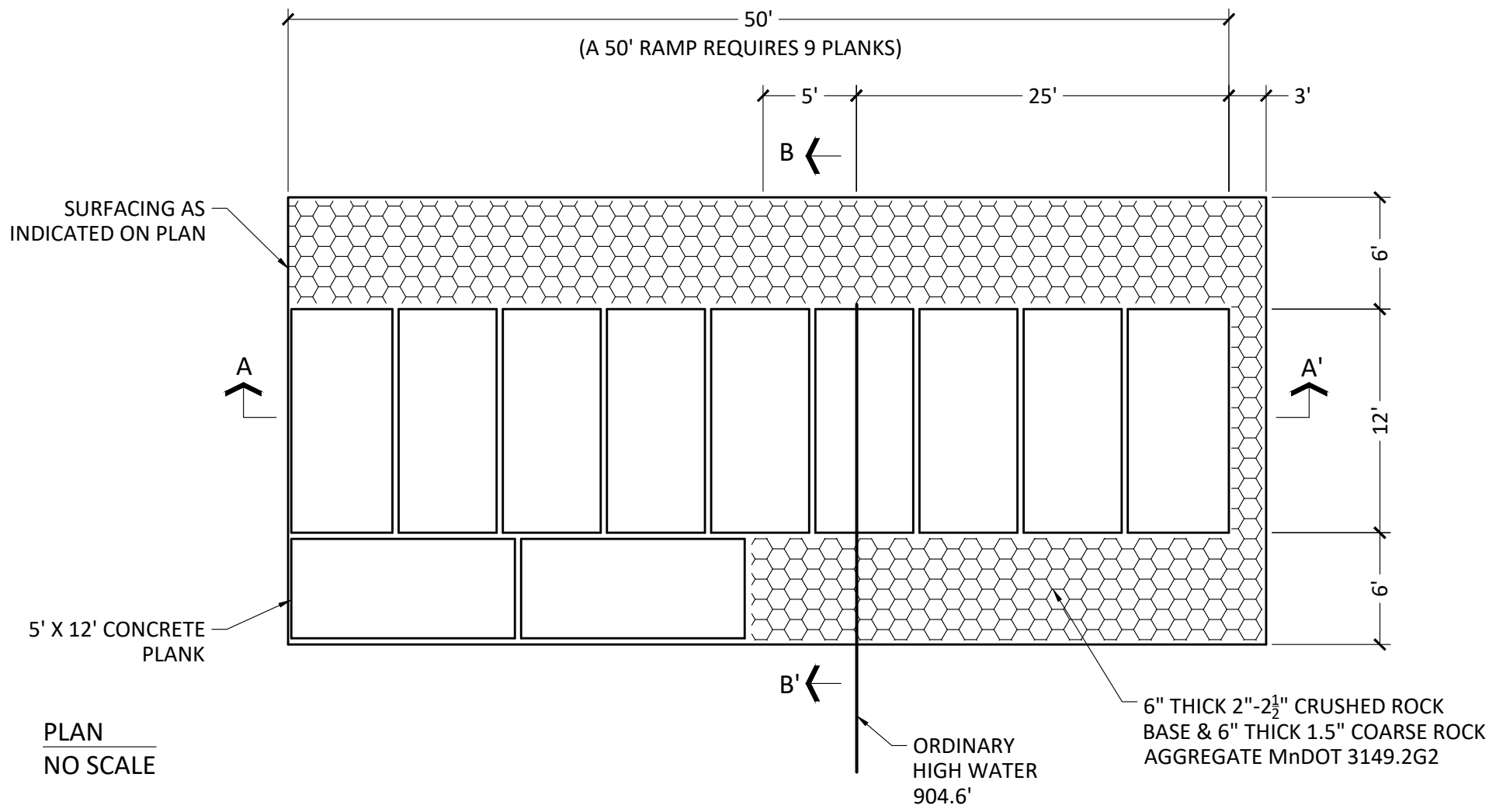
1. CLASS 2 AGGREGATE SURFACING EXCEEDING 2% IN ANY DIRECTION SHALL BE REGRADED AT THE EXPENSE OF THE CONTRACTOR.
2. MEASUREMENT OF MAXIMUM RUNNING GRADE AND CROSS SLOPE SHALL BE MADE WITH A 48" LEVEL. ANY PORTION OF THE SURFACE MAY BE TESTED BY THE ENGINEER USING THE 48" LEVEL. TOLERANCE OF PLUS OR MINUS 1/2% WILL BE ALLOWED. IF THE SURFACE DOES NOT MEET SPECIFICATIONS USING THIS METHOD OF MEASUREMENT, THE CLASS 2 AGGREGATE SHALL BE REGRADED AT THE EXPENSE OF THE CONTRACTOR.

3 Accessible Aggregate Parking

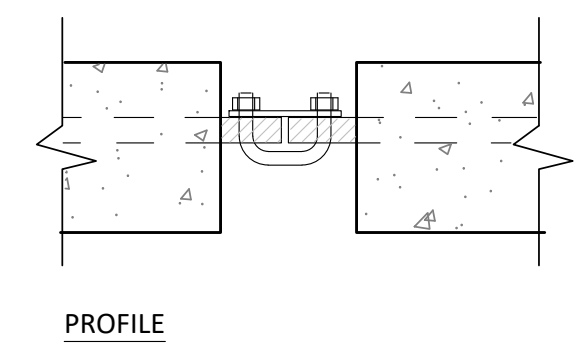
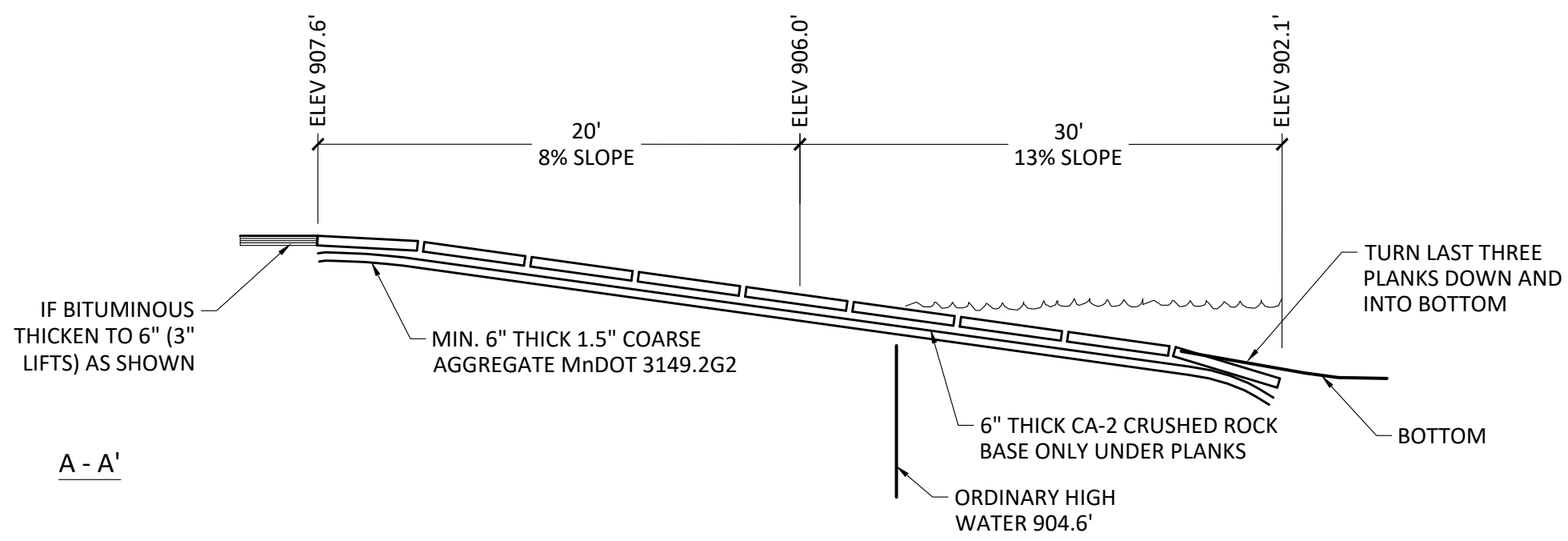
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Diamond Lake Water Levels (NAVD 88)
 Ordinary High Water Level (OHW) Elevation: 904.57 ft
 Highest Recorded: 906.37 ft (04/27/1992)
 Lowest Recorded: 903.27 ft (12/19/1958)



PLAN
 NO SCALE



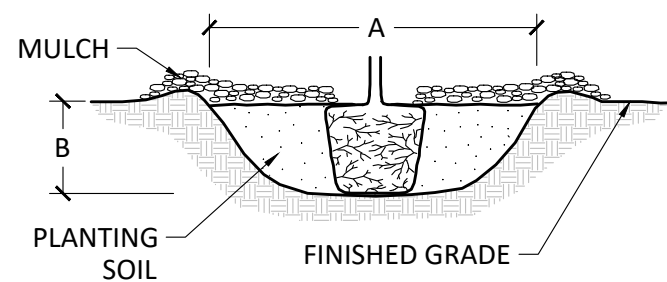
- NOTES:
 1. 3 WEEK LEAD TIME FOR LOCAL DNR SHOP TO DELIVER PLANKS TO PROJECT SITE.
 2. HAND TIGHTEN NUTS ON BOLTS BETWEEN PLANKS.

1 Concrete Plank Boat Ramp

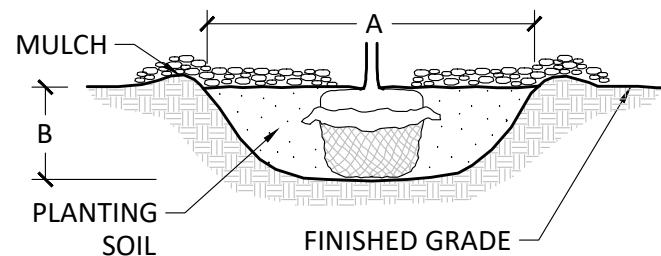
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| PLANTING HOLE DIMENSIONS | | | |
|--|------------|---------------------|----------------|
| HOLE DEPTH MEASUREMENT FROM ROOT FLAIR TO BOTTOM OF SOIL BALL. | | | |
| PLANT TYPE | PLANT SIZE | (A) MIN. HOLE WIDTH | (B) HOLE DEPTH |
| DECIDUOUS TREES | 1" B.B. | 54" | 14" |
| | 1.25" B.B. | 56" | 15" |
| | 1.5" B.B. | 61" | |
| CONIFEROUS TREES | 3' B.B. | 42" | 11" |
| | 4' B.B. | 51" | 13" |
| | 5' B.B. | 60" | |
| CONTAINER GROWN PLANTS | 3# cont. | 29" | 8.5" |
| | 5# cont. | 30" | 11" |
| | 7# cont. | 37" | |
| | 10# cont. | 44" | 14" |
| | 15# cont. | 45" | 15" |
| 20# cont. | 60" | 16" | |
| 25# cont. | 72" | 17" | |

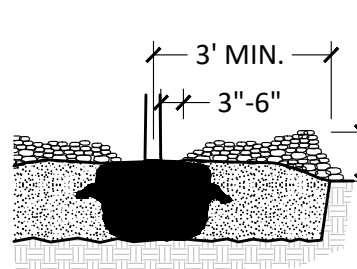


1. PREPARE PLANTING SOIL.
2. SCARIFY SIDES AND BOTTOM OF HOLE.
3. PROCEED WITH CORRECTIVE PRUNING.
4. REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS. REMOVE OR CORRECT STEM GIRDLING ROOTS. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL.
5. INSTALL PLANT SO THE TOP OF THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE.
6. PLUMB AND BACKFILL WITH PLANTING SOIL.
7. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANT AND FILL VOIDS.
8. BACKFILL VOIDS AND WATER A SECOND TIME.
9. PLACE MULCH WITHIN 48 HRS. OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.



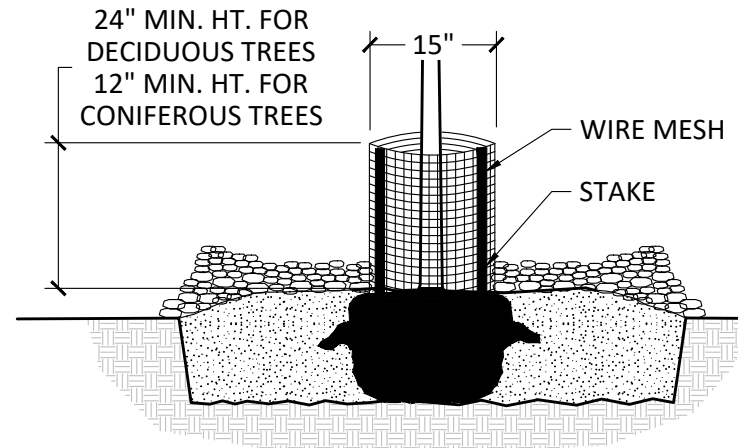
1. PREPARE PLANTING SOIL.
2. SCARIFY SIDES AND BOTTOM OF HOLE.
3. PROCEED WITH CORRECTIVE PRUNING.
4. SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
5. SLIT REMAINING TREATED BURLAP AT 6" INTERVALS. BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT.
6. REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
7. PLUMB AND BACKFILL WITH PLANTING SOIL.
8. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANT AND FILL VOIDS.
9. BACKFILL VOIDS AND WATER A SECOND TIME.
10. PLACE MULCH WITHIN 48 HRS. OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

CONTAINER STOCK INSTALLATION



MULCH PLACEMENT

1. PULL MULCH BACK NO LESS THAN 3" AND NO MORE THAN 6" FROM TREE TRUNKS.
2. MULCH CONTAMINATED W/ SOIL MUST BE REMOVED & REPLACED.

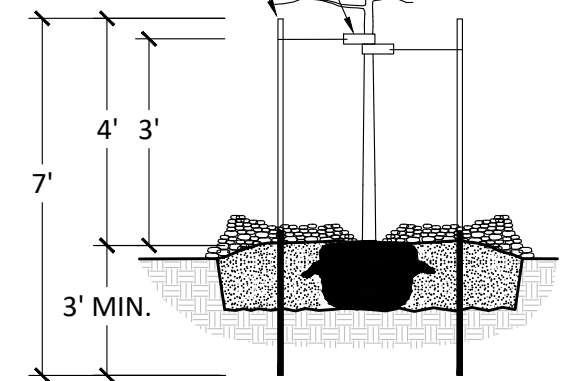


1. FORM A DOUBLE-LAYERED CYLINDER USING 0.25" GRID GALVANIZED WELDED WIRE MESH (HARDWARE CLOTH). OVERLAP THE CUT END 2".
2. DRIVE TWO 1" x 1" OPPOSING WHITE OAK HEARTWOOD STAKES INTO THE GROUND, 7" FROM THE CENTER OF THE TREE STEM.
3. SECURE THE MESH CYLINDER TO THE OUTSIDE OF THE STAKES USING EITHER,
 - 3.1. SCREWS AND WASHERS OR CABLE-TIES ALONG THE OVERLAP. SPACE APPROXIMATELY 4" ON CENTER ALONG THE OVERLAP. SCREWS SHALL BE ROUND HEAD GALVANIZED 1/8" DIA. x 3/4" LONG WITH WASHERS.
 - 3.2. CABLE-TIES SHALL BE NYLON, AT LEAST 8" LONG AND BETWEEN 75LB TO 120LB TENSILE STRENGTH.
4. EMBED THE LOWER EDGE OF THE MESH CYLINDER 1" BELOW THE SOIL SURFACE WITHOUT DISTURBING THE TREE ROOTS.
5. CUT EDGES WILL NOT BE PERMITTED AT THE TOP OF THE CYLINDER. STAKE WILL BE FLUSH WITH THE TOP OF THE CYLINDER.
6. MULCH WITHIN THE CYLINDER SHALL NOT EXCEED 3" DEPTH AND SHALL BE PULLED BACK FROM THE TRUNK AS SPECIFIED IN MULCH PLACEMENT DETAIL.
7. THE BOTTOM WHORL OF PINE AND LARCH BRANCHES MAY HAVE TO BE REMOVED TO PERMIT INSTALLATION OF 12" MIN. HEIGHT RODENT GUARDS.

RODENT PROTECTION (ALL DECIDUOUS & PINE TREES)

16" LONG POLYPROPYLENE OR POLYETHYLENE, 40 MIL. THICK AND 1.5" WIDE STRAPS. ATTACH W/ 10 ga WIRE.

ROLLED STEEL FENCE POST (MnDOT 3403) OR APPROVED EQUAL



1. STEEL POSTS TO BE NOTCHED OR DRILLED TO RETAIN GUY WIRES. PLACE OUTSIDE OF ROOT BALL. DRIVE PLUMB REGARDLESS OF GROUND SLOPE.
2. RUBBER HOSE AND WIRE GUYING SYSTEMS ARE NOT AN APPROVED SUBSTITUTE.
3. TREE STAKING IS NOT REQUIRED UNLESS SPECIFIED OR NECESSARY TO MAINTAIN TREES IN A PLUMB CONDITION. CIRCUMSTANCES FOR STAKING: HIGH SOIL MOISTURE, VANDALISM, SANDY SOILS, STEEP SLOPES OR WINDY CONDITIONS.
4. REMOVE WITHIN ONE YEAR.

STAKING AND GUYING

BALLED & BURLAPPED STOCK INSTALLATION

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| | | | Survey: AD 08/31 Designed: Trent Luger Drawn: JS 09/20 Drawn: TL XX/XX Checked: WL 09/01 Checked: JP XX/XX Horiz. datum: NAD83(96 ADJ) Vert. datum: NAVD 88 | | |

PLANT INSPECTION CHECKLIST

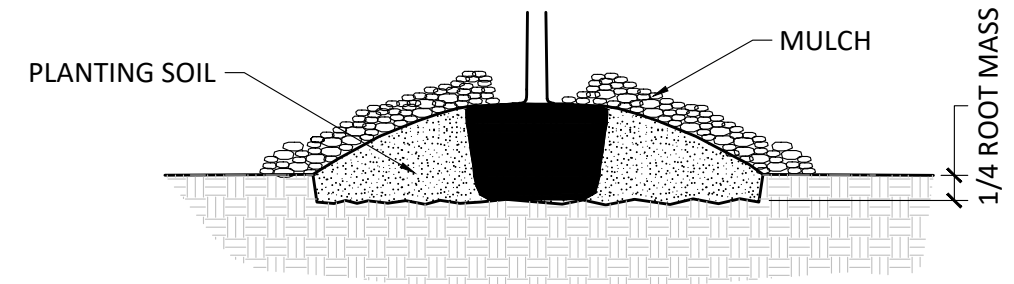
1. PLANTS WITH ROOT SYSTEMS CONSISTENT WITH THE CRITERIA SHOWN ON THE PLAN.
 - 1.1. THE STEM OR TRUNK IS NO MORE THAN 10% OFF CENTER IN THE SOIL BALL, UNLESS THE BALL IS OVERSIZED ALLOWING A CENTERED PLANT WITHIN THE MINIMUM RADIUS SPREAD FOR THE ROOT TYPES SPECIFIED.
 - 1.2. ROOT FLAIRS LESS THAN 4" BELOW THE SOIL LINE.
 - 1.3. BALLED AND BURLAPPED PLANTS WITH UNBROKEN OR UNDISTURBED BALLS.
 - 1.4. LARGE DIAMETER ROOT STUBS ARE NOT RIPPED, CRACKED OR TORN.
 - 1.5. CONTAINER GROWN PLANTS SHALL HOLD THE SOIL BALL INTACT WHEN REMOVED FROM THE CONTAINER.
 - 1.6. ROOTS HAVE NOT ENCIRCLED THE STEM OR TRUNK.
2. PLANTS WITH STEMS OR TRUNKS AND BRANCHES CONSISTENT WITH THE FOLLOWING CRITERIA.
 - 2.1. FREE OF CANKERS, A LOCALIZED SUNKEN, RAISED AND DISCOLORED DEAD AREAS. CANKERS USUALLY FORM AROUND A DEAD BUD, BRANCH, STUB, OR A STEM WOUND.
 - 2.2. TRUNKS FREE OF FROST CRACKS, A VERTICAL SPLIT.
 - 2.3. TRUNKS/STEMS FREE OF CRACKS OR WOUNDS CAUSED BY WEED WHIPS, MOWERS OR HANDLING.
 - 2.4. TRUNKS AND STEMS HAVE PRUNING CUTS WITH A DIAMETER LESS THAN 30% OF THE DIAMETER OF THE TRUNK OR STEM.
 - 2.5. PROPERLY HEALED PRUNING CUTS WITHOUT DEAD BRANCH STUBS. A PROPERLY HEALED PRUNING CUT WILL HAVE A CALLUS THAT ENCIRCLES THE WOUND.
 - 2.6. CROSSED AND RUBBING BRANCHES THAT CAN BE CORRECTIVELY PRUNED.
 - 2.7. THERE IS A CENTRAL LEADER, NOT MULTIPLE LEADERS, OR CAN BE CORRECTIVELY PRUNED TO PROMOTE A CENTRAL LEADER.
 - 2.8. SHOOTS, A CURRENT SEASON STEM GROWTH, THAT ARE NOT LIMP OR WILTED.
 - 2.9. BUDS ARE NOT SHRIVELED, DRIED OUT OR DEAD.
 - 2.10. CONIFEROUS TREES THAT ARE NOT ROUTINELY SHEARED. A ROUTINELY SHEARED TREE IS IDENTIFIED BY ONE OF THE FOLLOWING:
 - DENSELY GROWN AND UNIFORMLY PYRAMIDAL "CHRISTMAS TREE" APPEARANCE.
 - NEW GROWTH REMOVED AND TERMINAL LEADER AND TERMINAL BUDS ARE MISSING.
 - "FINGER-LIKE" OR THICK WHORL DEVELOPMENT IS AT THE BRANCH TIPS.
3. PLANTS ARE FREE OF INSECTS, DISEASES AND INVASIVE SPECIES.
 - 3.1. ROOTS ARE NOT BROWN OR BLACK SIGNAL PROBLEMS SUCH AS DRYNESS OR DISEASE.
 - 3.2. LEAVES OR NEEDLES ARE FREE OF ABNORMALITIES SUCH AS SIZE, CONDITION, SHAPE, AND COLOR OF THE FOLIAGE.
 - 3.3. LEAVES OR NEEDLES ARE FREE OF INSECT DAMAGE INCLUDING FRASS, LEAF MINING, WEBBING, CHEWING WHICH CAN LEAVE HOLES, TATTERED EDGES OR SURFACE DAMAGE.
 - 3.4. TRUNK, LIMBS AND SHOOTS ARE FREE OF DISCOLORED OR ABNORMAL BARK, WOUNDS INCLUDING MECHANICAL DAMAGE, AND/OR SMALL HOLES INDICATIVE OF BORING INSECTS.
 - IF INSECT OR DISEASE SYMPTOMS APPEAR IN ANY ONE OF THESE AREAS, PROCEED WITH THE FOLLOWING STEPS.
 - USE THE ICAMMLP DIAGNOSTIC PAGES TO HELP DETERMINE POTENTIAL TREATMENT OPTIONS OR WHETHER THE DAMAGE OR PEST IS GROUNDS FOR REJECTION.
 - IF YOU ARE NOT A CERTIFIED LANDSCAPE SPECIALIST, CONTACT A LANDSCAPE ARCHITECT OR RESOURCE SPECIALIST FOR ADVICE.

MN/DOT GRADE 2 COMPOST INSPECTION CHECKLIST

1. THE MATERIAL SHALL BE RELATIVELY DRY AND CRUMBLY WITH A DARK BROWN COLOR.
2. THE MINIMUM MOISTURE CONTENT IS 35%. WHEN A HANDFUL OF COMPOST IS SQUEEZED THE BALL SHOULD STAY TOGETHER.
3. THE COMPOST MAY HAVE AN EARTHY SMELL, BUT IT SHOULD NOT HAVE ANY NOTICEABLE RANK, ROTTEN EGG, AMMONIA, OR FOUL ORDER.
4. PROVIDE MATERIAL WITHOUT:
 - WEED SEEDS OR WEEDS SPROUTING FROM THE PILE.
 - BUGS OR WORMS.
 - STEAM RISING FROM THE PILE AND THE MATERIAL TEMPERATURE SHALL BE CLOSE TO AMBIENT (SURROUNDING) TEMPERATURE. TAKE THE INSULATING AND HEAT ABSORBING CHARACTERISTICS OF A COMPOST PILE INTO CONSIDERATION. STICK YOUR COVERED HAND AND FOREARM INTO THE PILE AND THE MATERIAL SHALL NOT BE UNCOMFORTABLY WARM OR HOT.
 - PARTICULATE MATTER SUCH AS STONE, GLASS, AND PLASTIC OF A SIZE THAT WOULD NOT PASS THROUGH A 3/4 INCH SIEVE IN THE SCREENING PROCESS.

GENERAL INSTALLATION NOTES

1. TO PREVENT SITE COMPACTION AND DAMAGE, DO NOT WORK IN PLANTING HOLES AND BED AREAS IF THE SOIL MOISTURE IS GREATER THAN FIELD CAPACITY
2. ENSURE DRAINAGE IN THE PLANTING HOLE AND BED AREAS.
3. IF THE CONTRACTOR ENCOUNTERS EXCESSIVELY WET SOILS, BEDROCK, OR EXCESSIVE QUANTITIES OF BOULDERS AND CONSTRUCTION DEBRIS, THE ENGINEER MAY RELOCATE OR DELETE PLANTINGS, OR INSTALL ACCORDING TO THE POORLY DRAINED SOILS DETAIL.

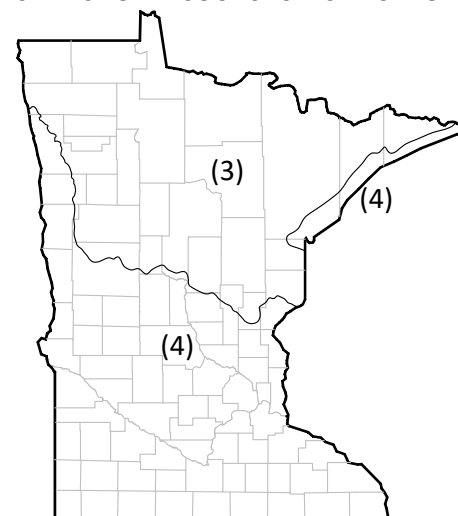


1. EXCAVATE HOLE OR BED 1/4 THE DEPTH OF THE ROOT MASS.
2. SET ROOT MASS IN HOLE.
3. CONSTRUCT BERM WITH PLANTING SOIL. EXTEND THE BERM BASE TO A WIDTH OF 3 TIMES THE BERM HEIGHT.
4. COMPLETE PLANTING ACCORDING ROOT TYPE.
- 3.1. FOR A SUSPECTED DRAINAGE PROBLEM, PERFORM A PERCOLATION TEST BY FILLING A 16 IN DEEP PLANTING HOLE WITH WATER AND MEASURING THE TIME IT TAKES THE WATER TO DRAIN FROM THE HOLE. THE ENGINEER CONSIDERS ADEQUATE DRAINAGE EQUAL TO OR GREATER THAN A PERCOLATION RATE OF 1/2 IN/HR..
4. IMMEDIATELY BEFORE PLANTING, PRUNE TO REMOVE DEAD, RUBBING, DAMAGED, DISEASED, AND SUCKERING BRANCHES, AND TO IMPROVE PLANT SYMMETRY, STRUCTURE, AND VIGOR. PRUNE CONIFEROUS TREES AND SHRUBS ONLY TO REMOVE DAMAGED GROWTH OR A COMPETING LEADER.
 - 4.1. PRUNING MUST PRESERVE THE PLANT MATERIALS NATURAL FORM AND CHARACTER AND BE IN ACCORDANCE WITH STANDARD PRACTICES. EXCESSIVE PRUNING THAT DESTROYS FORM BECOMES SUFFICIENT GROUNDS FOR REPLACEMENT AT REQUEST OF THE ENGINEER.
5. DO NOT PRUNE OAK TREES DURING THE OAK WILT SEASON FROM APRIL THROUGH JULY, TO PREVENT THE SPREAD OF OAK WILT DISEASE. IMMEDIATELY TREAT ACCIDENTAL CUTS OR WOUNDS TO OAKS WITH A WOUND DRESSING IN ACCORDANCE WITH THE STANDARD PLANTING DETAILS SHOWN ON THE PLANS. KEEP WOUND-DRESSING MATERIAL ON THE PROJECT SITE DURING THE OAK WILT SEASON.
6. PAINT THE TREE TRUNKS OF OAK, LINDEN, LOCUST, MAPLES, CRABAPPLE AND MOUNTAIN ASH. PAINT THE TRUNK CIRCUMFERENCE FROM GROUND LINE TO FIRST MAJOR BRANCH.

PLANT INSTALLATION PERIODS

| PLANTING DATES BY ZONE | | | |
|------------------------|------------|---------------------------|--------------------------|
| | | (3) | (4) |
| SPRING | DECIDUOUS | APRIL 21 TO JUNE 30 | APRIL 7 TO JUNE 30 |
| | CONIFEROUS | APRIL 21 TO JUNE 1 | APRIL 7 TO MAY 17 |
| | PERENNIALS | MAY 1 TO JUNE 30 | |

| PLANTING DATES BY ZONE | | | |
|------------------------|------------|-------------------------|-----------------------|
| | | (3) | (4) |
| FALL | DECIDUOUS | AUG 25 TO OCT 15 | AUG 25 TO NOV 1 |
| | CONIFEROUS | AUG 25 TO SEPT 15 | |
| | PERENNIALS | | |



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| <p>DEPARTMENT OF NATURAL RESOURCES</p> | <p>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 Landscape Architect under the laws of the state of Minnesota.</p> <p>Name: <u>Trent Luger</u> License #: <u>41457</u></p> <p>Date: <u>6.11.2021</u></p> | <p>Water Access Diamond Lake Parks & Trails</p> <p>Hennepin County City Of Dayton Lat/Long: 45.199341° 93.496076°</p> | <table border="1"> <thead> <tr> <th colspan="2">Revisions</th> </tr> <tr> <th>Date</th> <th>By</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </tbody> </table> | Revisions | | Date | By | | | | | | | <p>Title: <u>Planting Details</u></p> <table border="1"> <tr> <td>Survey: AD 08/31</td> <td>Designed: Trent Luger</td> </tr> <tr> <td>Drawn: JS 09/20</td> <td>Drawn: TL XX/XX</td> </tr> <tr> <td>Checked: WL 09/01</td> <td>Checked: JP XX/XX</td> </tr> <tr> <td colspan="2">Horz. datum: NAD83(96 ADJ) Vert. datum: NAVD 88</td> </tr> </table> | Survey: AD 08/31 | Designed: Trent Luger | Drawn: JS 09/20 | Drawn: TL XX/XX | Checked: WL 09/01 | Checked: JP XX/XX | Horz. datum: NAD83(96 ADJ) Vert. datum: NAVD 88 | | <p>Sheet: L-506</p> <p>CC2: 8A113</p> <p>File #: WAS00685.00.17.30</p> <p>Site #: R290841</p> |
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| | Revisions | | | | | | | | | | | | | | | | | | | | | | |
| Date | By | | | | | | | | | | | | | | | | | | | | | | |
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| Survey: AD 08/31 | Designed: Trent Luger | | | | | | | | | | | | | | | | | | | | | | |
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