

Riley Purgatory Bluff Creek Watershed District Permit Application Review

Permit No: 2022-058 (formerly 2020-003 which expired on April 3, 2022)

Considered at Board of Managers Meeting: August 3, 2022

Project Procedural History: Permit application 2020-003 conditionally approved April 2, 2020. Based on the written request from the applicant, RPBCWD extended the conditional approval to April 2, 2022, after the applicant proposed permit modification. Because the application for the proposed modifications was not complete prior the expiration date, the prior approval expired April 3, 2022. The applicant subsequently submitted a new permit application.

Received complete: July 26, 2022

Applicant: TMSC of Chanhassen, LLC., Elizabeth Wright

Consultant: Civil Site Group, Michael Sheehan

Project: The Moments of Chanhassen – The applicant proposes development of a 3.6-acre site in Chanhassen, MN. Proposed work includes construction of a multi-unit residential facility with associated parking, grading, utilities, landscaping and stormwater management facilities. Stormwater management facilities including a rainwater harvest and reuse system, underground chambers, proprietary treatment devices, a filtration basin, and a vegetated swale will be constructed to provide volume control, water quality, and rate control.

Location: 1620-1660 Arboretum Blvd Chanhassen, MN 55317

Reviewer: Leslie DellAngelo, P.E. and Scott Sobiech P.E., Barr Engineering

Recommended Board Action

Manager _____ moved and Manager _____ seconded adoption of the following resolutions based on the permit report that follows and the presentation of the matter at the April 1, 2020 meeting of the managers:

Resolved that the application for Permit 2022-058 is approved, subject to the conditions and stipulations set forth in the Recommendations section of the permit application review, and the further condition as follows:

Resolved that on determination by the RPBCWD administrator that the conditions of approval have been affirmatively resolved, the RPBCWD president or administrator is authorized and directed to sign and deliver Permit 2022-058 to the applicant on behalf of the RPBCWD.

Upon roll call vote, the resolutions were adopted, _____.

Applicable Rule Conformance Summary

| Rule | Issue | Conforms to RPBCWD Rules? | Comments | |
|----------|---|---------------------------|--|--|
| B | Floodplain Management and Drainage Alterations | See Comment | See Rule Specific Permit Condition B1 related to providing at least 100 feet between Riley Creek and the proposed building and stipulation #2 related to proof of recordation that drainage and flowage easements over all land below the 100-year flood elevation, as required. | |
| C | Erosion Control Plan | See Comment | See rule-specific permit condition C1 related to name of individual responsible for on-site erosion control. | |
| D | Wetland and Creek Buffers | See Comment | See Rule Specific Permit Condition D1 related to recordation of buffer maintenance declaration. | |
| G | Waterbody Crossings | See Comment | See Rule Specific Permit Condition G1 related to recordation of the outfall maintenance declaration. | |
| J | Stormwater Management | Rate | Yes | |
| | | Volume | Yes | |
| | | Water Quality | Yes | |
| | | Low Floor Elev. | Yes | |
| | | Maintenance | See Comment | See Rule Specific Permit Condition J1 related to recordation of stormwater facilities maintenance declaration. |
| | | Chloride Management | See Comment | See stipulation #5 related to providing an executed chloride management plan prior to permit close-out. |
| | | Wetland Protection | Yes | |
| L | Permit Fee Deposit | Yes | \$3,000 received January 22, 2020. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued. As of July 27, 2022 the amount due is \$13,491. | |
| M | Financial Assurances | See Comment | The financial assurance is calculated at \$366,493 | |

Background

The proposed land-disturbing activities were previously conditionally approved under RPBCWD permit 2020-003 on April 2, 2020. While working to fulfill the conditions of the board’s conditional approval, in-situ infiltration testing results showed the infiltration capacity of the soils are 0.0 inches per hour (in/hr)

which is significantly lower than used in the design. Because the in-situ infiltration rate is less than used in the conditionally approved design, the applicant submitted a permit modification request. Based on a written request from the applicant, the review timeline was extended administratively for one year, from to April 2, 2021 until April 2, 2022. Because the application for the modification was not complete and activities under the permit had not substantially commenced, the April 2020 approval expired. Under Rule A, subsection 5, the applicant must reapply for a permit from the District.

The proposed project includes development of a multi-unit residential facility with associated parking, grading, utilities, landscaping, an outfall to Riley Creek, and stormwater management facilities. The 3.6-acre site is currently undeveloped, and the open space is a combination of open grassland and wooded areas. The applicant proposes construction of a rainwater harvest and reuse system, underground chambers, two hydrodynamic separators, one proprietary cartridge filtration chamber, a filtration basin, and a vegetated swale to provide stormwater quantity, volume and rate quality control.

One delineated wetland is located onsite north of the proposed building. Riley Creek is located along the northern site boundary. The 100-year floodplain of Riley Creek was found to inundate a portion of the property along the northern property boundary at varying elevations between approximately 945 to 952 feet (NGVD29). Because Riley Creek and a wetland are downgradient from the proposed land disturbing activities, wetland and creek buffer requirements apply to the proposed project.

The project site information is summarized below:

| Project Site Information | Area (acres) |
|---------------------------|--------------|
| Total Site Area | 3.6 |
| Existing Impervious | 0.01 |
| Disturbed Impervious Area | 0.01 |
| Proposed Impervious Area | 1.26 |
| Change in Impervious Area | 1.25 |
| Regulated Impervious Area | 1.26 |
| Total Disturbed Area | 2.88 |

The following materials were reviewed in support of the permit request:

1. Permit modification request received January 25, 2022 (Notified applicant on February 11, 2022 that submittal was incomplete, application for the proposed modifications was not complete prior the expiration date, the prior approval expired April 3, 2022. The applicant subsequently submitted a new permit application completing the new application received July 26, 2022)
2. Construction Plan Sheets (22 sheets) dated January 24, 2022 (revised May 20, 2022, July 15, 2022, and July 25, 2022)
3. Geotechnical exploration report by Haugo GeoTechnical Services data January 5, 2018

4. Infiltration testing results received May 20, 2022
5. Stormwater Management Report by Civil Site Group dated January 24, 2022 (revised May 20, 2022, July 15, 2022, and July 26, 2022)
6. Wetland Conservation Act Notice of Decision for the Type and Boundary dated July 19, 2019
7. Wetland Delineation Report by Jacobson Environmental dated April 11, 2019.
8. MNRAM Wetland Classification received March 6, 2020
9. Electronic HydroCAD models received on January 25, 2022 (revised May 20, 2022, July 15, 2022, and July 26, 2022)
10. Electronic MIDS water quality models received on January 25, 2022 (revised May 20, 2022, July 15, 2022, July 22, 2022, and July 26, 2022)
11. SHSAM modeling results received on July 15, 2022
12. Engineers' opinion of probable cost dated July 15, 2022 (revised July 26, 2022)
13. Response to RPBCWD review comments received May 20, 2022
14. Response to RPBCWD review comments received July 15, 2022

Rule Specific Permit Conditions

Rule B: Floodplain Management and Drainage Alterations

Because the proposed project involves constructing a new outfall as well as grading and rip rap installation below the 100-year flood elevation of Riley Creek (945 NGVD29), the project activities must conform to the RPBCWD's Floodplain Management and Drainage Alterations rule (Rule B). The 100-year flood elevations of Riley Creek along the northern site boundary are displayed on the plans (Rule B, Subsection 4.2).

The proposed low floor elevation of the building (958 feet) is 13 feet above the 100-year flood elevation, complying with Rule J, Subsection 3.6 (Rule B, Subsection 3.1). The plans provide a cross-section on sheet C5.1 showing the proposed outfall including existing and proposed ground surface below the 100-year floodplain. Because the project proposes to match existing elevations at the proposed outfall, the post-development conditions will result in no net change in the existing floodplain storage. Thus, the project conforms to Rule B, Subsection 3.2.

The proposed outfall includes a riprap stilling basin at the flared end section outlet prior to discharge into Riley Creek, thus reducing the velocity of the stormwater outflow to not alter the creek flows or channel stability in accordance with Rule B, Subsection 3.3.

The plans show the northeast corner of the proposed building 90 feet from the centerline of Riley Creek, thus closer than the 100 feet of separation required by Rule, Subsection 3.4.

The Applicant submitted an erosion control plan in conformance with Rule C, per Rule B, Subsection 3.5. A note on the plans indicates that activities must be conducted to minimize the potential transfer of aquatic invasive species conforming to Rule B, Subsection 3.5.

To conform to the RPBCWD Rule B requirements the following revision is needed:

- B1. The location of the proposed building must be adjusted or the building design modified to provide a minimum of 100 feet of separation between the centerline of Riley Creek and the building.
- B2. Documentation that drainage and flowage easements over all land below the 100-year flood elevation have been conveyed to the municipality with jurisdiction, if required, needs to be submitted prior to project close out.

Rule C: Erosion Prevention and Sediment Control

Because the project will alter more than 50 cubic yards of material, the project must conform to the requirements in the RPBCWD Erosion Prevention and Sediment Control rule (Rule C, Subsection 2.1).

The erosion and sediment control plans prepared by Civil Site Group include installation of perimeter control (including redundant perimeter controls at the proposed wetland and creek buffer), inlet protection for storm sewer catch basins, a rock construction entrance, protection of stormwater management facilities, placement of a minimum of 6 inches of topsoil, decompaction of pervious areas compacted during construction, and retention of native topsoil onsite. To conform to RPBCWD Rule C requirements the following revisions are needed:

- C1. The Applicant must provide the name and contact information of the general contractor responsible for the site. RPBCWD must be notified if the responsible party changes during the permit term. This information is required prior to issuance of the permit.

Rule D: Wetland and Creek Buffers

Because the proposed work triggers a permit under RPBCWD Rules B, G, and J and Riley Creek and the onsite wetland are downgradient from the proposed construction activities, Rule D, Subsections 2.1a and 3.1 require buffer along the downgradient bank of the creek and edge of the wetland. Rule D, Subsections 3.1b and 3.1c require buffer on the edge of the wetland that is downgradient from the activity and on a streambank downgradient from the land-disturbing activity in accordance with Rule D, Subsection 3.2. No land disturbing activities are proposed within the onsite wetland or in the creek.

Using the MNRAM functions and values assessment dated February 4, 2020 the onsite wetland was determined to be medium value. The land-disturbing activities are located upgradient from the medium value wetland requiring a 40-foot average, 20-foot minimum buffer width (Rule D, Subsection 3.2b.iii). RPBCWD Rule D, Subsection 3.2.b.v requires an average buffer width of 50 feet from the creek centerline, minimum 30 feet for a public waters watercourse. The Applicant provided a buffer plan and

marker location map confirming that the proposed buffer area extends the required average widths. As shown in the table below, the required buffer width for the onsite wetland and Riley Creek conform to Rule B, Subsection 3.2.

| Regulated Feature | RPBCWD Wetland Value | Required Minimum Width ¹ (ft) | Required Average Width ¹ (ft) | Provided Minimum Width (ft) | Provided Average Width (ft) |
|---------------------------|----------------------|--|--|-----------------------------|-----------------------------|
| Riley Creek | N/A | 30 | 50 | 50.0 | 62.7 |
| Onsite Delineated Wetland | Medium | 20 | 40 | 20.0 | 44.0 |

¹ Average and minimum required buffer width based on Rule D, Subsection 3.2.b.

Plan sheet L1.0 indicates disturbed areas within the proposed buffer will be revegetated with native vegetation in conformance with Rule D, Subsection 3.3. The plans identify buffer marker locations and include a design detail in conformance with design and text provided by the District (Rule D, Subsection 3.4).

A note is included on the plan sheet indicating the project will be constructed so as to minimize the potential transfer of aquatic invasive species (e.g., zebra mussels, Eurasian watermilfoil, etc.) to the maximum extent possible conforming to Rule D, Subsection 3.6.

To conform to the RPBCWD Rule D the following revisions are needed:

- D1. Buffer areas and maintenance requirements must be documented in a declaration recorded after review and approval by RPBCWD in accordance with Rule D, Subsection 3.5. The maintenance declaration must also include an exhibit clearly showing the buffer area and monument locations.

Rule G: Waterbody Crossings and Structures

Because the project proposes a new outfall structure along the bank of Riley Creek, a public watercourse, the project requires conformance with RPBCWD’s Waterbody Crossings and Structures Rule (Rule G). The proposed work falls within the scope of Minnesota Department of Natural Resources General Permit #2015-1192. (Rule F: Stormwater and Streambank Stabilization is not triggered because the riprap being installed in bank of the creek is to prevent erosion more so than stabilize the bank, and the relevant Rule F criteria are covered here, under Rule G.)

This work represents a demonstrated public benefit by reducing pollutant loading to Riley Creek (Rule G, Subsection 3.1a).

The project plans incorporate a small stilling basin at the outfall prior to the discharge entering Riley Creek. In addition, site runoff is conveyed to sump manholes, SciClone hydrodynamic separators, and the proposed filtration basin for entrapment of floatables, sedimentation, runoff retention and reduction of peak runoff rates to less than existing condition before the discharging to the creek, thus the design is in conformance with Rule G, Subsection 3.3.

Placement of the proposed outfall structure represents the minimal impact solution because the alternative of constructing an outfall that discharges flow on the existing slope above the creek would cause soil erosion potential and could destabilized the creek bank, both of which would promote sediment discharge into the creek from upgradient sources. The proposed outfall design minimizes the discharge velocity by including a drop manhole structure and limits the site disturbance adjacent to the creek, both of which minimize erosion potential and thus meet criteria in Rule G, Subsection 3.5a. The project proposes to match existing elevations along the creek at the outfall to minimize encroachment and change along the creek. Thus, design is in conformance with Rule G, Subsection 3.5b.

As discussed in the Rule B narrative above, the propose project will comply with the District floodplain rule, as required by subsection 3.5c.

Because the design proposes riprap sized appropriately to withstand the anticipated discharge velocity (7.5 feet per second), incorporates a stilling basin to dissipate energy, and reduces pollutant load from the site to less than existing conditions, the proposed outfall structure is not reasonably likely to cause adverse effects to water quality and the physical or biological character of the waterbody, thus conforming to Rule G, Subsection 3.5d.

The project SWPPP includes a note directing the contractor that no work affecting the bed or banks of a protected water shall occur between March 15 and June 15 (Rule G, Subsection 3.7a). Disturbed areas near and along the banks will be immediately stabilized after completion of permitted work and revegetated as soon as growing conditions allow (Rule G, Subsection 3.7b). A note is included on the plan sheet indicating the project will be constructed so as to minimize the potential transfer of aquatic invasive species (e.g., zebra mussels, Eurasian watermilfoil, etc.) to the maximum extent possible (Rule G, Subsection 3.7c).

Plans submitted confirm that riprap is sized appropriately in relation to the erosion potential. Riprap is sized at 12 inches in diameter which is appropriately sized to withstand the designed discharge velocity of 7.5 feet per second, thus conforming to Rule F, Subsection 3.3b (i). Plans submitted confirm the proposed outfall construction along the bank of Riley Creek will follow the natural alignment of the bank and will not cover emergent vegetation (Rule F, Subsection 3.3b (ii) and 3.3b (iv)). The plans and details indicate that a transitional layer consisting of graded gravel, at least 6 inches deep with geotextile fabric will be placed between the existing shoreline and rip rap, thus conforming to Rule F, Subsection 3.3b (iii). As shown in the riprap detail in the plans, the riprap is proposed to extend to the area around the top of the pipe below the Riley Creek 100-year floodplain elevation of 945 NGVD29, consistent with Rule

F, Subsection 3.3b (v). The riprap design reflects energy dissipation and stabilization necessary to minimize erosion at the streambank and is not placed for cosmetic purposes per Rule F, Subsection 3.3b (vi).

To conform to the RPBCWD Rule G the following revisions are needed:

- G1. Permit applicant must provide a draft maintenance declaration for the outfall structure for review and approval prior to recordation, in accordance with Rule G, Section 5.

Rule J: Stormwater Management

Because the project will disturb 2.9 acres of surface area, the project must meet the criteria of RPBCWD’s Stormwater Management rule (Rule J, Subsection 2.1).

The project proposes construction of a rainwater harvest and reuse system, underground chambers, two hydrodynamic separators, a proprietary cartridge filtration chamber, a filtration basin, and a vegetated swale to provide stormwater quantity, volume and rate quality control. Pretreatment for the filtration basin is provided by a Rain Guardian Turret device which separates sediment from water flowing into the basin and the underground chambers.

Rate Control

In order to meet the rate control criteria listed in Subsection 3.1.a, the 2-, 10-, and 100-year post development peak runoff rates must be equal to or less than the existing discharge rates at all locations where stormwater leaves the site. The Applicant used a HydroCAD hydrologic model to simulate runoff rates for pre- and post-development conditions for the 2-, 10-, and 100-year frequency storm events using a nested rainfall distribution, and a 100-year frequency, 10-day snowmelt event. The existing and proposed 2-, 10-, and 100-year frequency discharges from the site are summarized in the table below.

| Modeled Discharge Location | 2-Year Discharge (cfs) | | 10-Year Discharge (cfs) | | 100-Year Discharge (cfs) | | 10-Day Snowmelt (cfs) | |
|-----------------------------------|------------------------|------|-------------------------|------|--------------------------|------|-----------------------|------|
| | Ex | Prop | Ex | Prop | Ex | Prop | Ex | Prop |
| EX1/PR1 (Wetland/Creek) | 3.9 | 2.7 | 7.4 | 5.2 | 14.4 | 10.2 | 0.5 | 0.4 |
| EX2/PR2 (Adjacent Property) | 1.2 | 0.4 | 2.3 | 0.8 | 4.5 | 1.6 | 0.1 | <0.1 |
| EX3/PR3 (78 th Street) | 0.9 | <0.1 | 1.7 | <0.1 | 3.3 | <0.1 | 0.1 | <0.1 |

The proposed stormwater management plan will provide rate control in compliance with the RPBCWD requirements for the 2-, 10-, and 100-year events. Thus, the proposed project meets the rate control requirements in Rule J, Subsection 3.1a.

Volume Abstraction

Subsection 3.1.b of Rule J requires the abstraction onsite of 1.1 inches of runoff from all impervious surface of the parcel. An abstraction volume of 5,045 cubic feet is required from the 1.26 acres (55,038 square feet) of impervious area on the project for volume retention. Pretreatment for runoff entering the filtration basin is being provided by a Rain Guardian Turret device, sump manholes and the underground chambers to conform to Rule J, Subsection 3.1.b.1.

Soil borings performed by Haugo Geotechnical Services, Inc. dated January 5, 2018 show that soils onsite typically consist of Sandy Lean Clay fill with trace organic materials, gravel and wood over Sandy Lean Clay (CL) glacial till. Soil borings performed by Haugo Geotechnical show groundwater identified in the soil borings at elevations ranging from 946 feet to 950 feet. Groundwater was not encountered in the soil boring taken at the location and elevation of the proposed filtration basin at the eastern side of the property.

Haugo Geotechnical Services, Inc. performed four onsite infiltration tests in the subsurface soils at the stormwater facility locations and the results show the infiltration rates of the underlying soils to be 0.0 in/hr. Because the engineer concurs that the soil boring information, infiltration testing support that the abstraction standard in subsection 3.1b of Rule J cannot practicably be met, the site is considered a restricted site and stormwater runoff volume must be managed in accordance with subsection 3.3 of Rule J.

For restricted sites, subsection 3.3 of Rule J requires rate control in accordance with subsection 3.1.a and that abstraction and water-quality protection be provided in accordance with the following sequence: (a) Abstraction of 0.55 inches of runoff from site impervious surface determined in accordance with paragraphs 2.3, 3.1 or 3.2, as applicable, and treatment of all runoff to the standard in paragraph 3.1c; or (b) Abstraction of runoff onsite to the maximum extent practicable and treatment of all runoff to the standard in paragraph 3.1c; or (c) Off-site abstraction and treatment in the watershed to the standards in paragraph 3.1b and 3.1c. Because the soils on site allow for no infiltration, the applicant is proposing a rainwater harvest and reuse irrigating 1.26 acres of pervious area to achieve the abstraction standard in Subsection 3.3a of Rule J.

The table below summarizes the volume abstraction required and the volume abstraction achieved by the proposed stormwater management facilities on site. The proposed project is in conformance with Rule J, Subsection 3.3.a.

| Required Abstraction Depth (inches) | Required Abstraction Volume (cubic feet) | Provided Abstraction Depth (inches) | Provided Abstraction Volume (cubic feet) |
|-------------------------------------|--|-------------------------------------|--|
| 0.55 | 2,523 | 0.57 | 2,618 |

Because the proposed stormwater reuse system requires consistent use at a specified rate to meet District requirements, performance monitoring for the site will be required to ensure that the project provides the proposed volume abstraction.

Water Quality Management

Subsection 3.1.c of Rule J requires the Applicant to provide for at least 60 percent annual removal efficiency for total phosphorus (TP), and at least 90 percent annual removal efficiency for total suspended solids (TSS), as well as no net increase in pollutant loading from existing conditions. MIDS water quality models were developed to estimate the TP and TSS loading from the watersheds and the removal capacity of the proposed BMPs. The results of this modeling are summarized in the following tables. The results show the proposed project will remove sufficient TSS and TP to achieve an overall pollutant reduction in accordance with the required annual removals (Rule J, Subsection 3.2c).

Annual TSS and TP removal summary

| Pollutant of Interest | Regulated Site Loading (lbs/yr) | Required Load Removal (lbs/yr) ¹ | Provided Load Reduction (lbs/yr) |
|------------------------------|---------------------------------|---|----------------------------------|
| Total Suspended Solids (TSS) | 569.7 | 512.8 (90%) | 535.3 (93.9%) |
| Total Phosphorus (TP) | 3.14 | 1.88 (60%) | 1.97 (62.6%) |

Summary of net change in TSS and TP leaving the site

| Pollutant of Interest | Existing Site Loading (lbs/yr) | Proposed Site Load after Treatment (lbs/yr) | Change (lbs/yr) |
|------------------------------|--------------------------------|---|-----------------|
| Total Suspended Solids (TSS) | 195 | 34.5 | -160.5 |
| Total Phosphorus (TP) | 1.64 | 1.16 | -0.48 |

Low floor Elevation

All new buildings must be constructed such that the lowest floor is at least two feet above the 100-year high water elevation or one foot above the emergency overflow of a stormwater-management facility according to Rule J, Subsection 3.6a. In addition, a stormwater-management facility must be constructed at an elevation that ensures that no adjacent habitable building will be brought into noncompliance with this requirement according to Rule J, Subsection 3.6b. The low floor elevation of the proposed building and the adjacent stormwater management feature or waterbody are summarized below.

| Stormwater Management Facility or Waterbody | Low Floor Elevation of Proposed Building (feet) | 100-year Event Flood Elevation of Adjacent Stormwater Facility or Waterbody (feet) | Freeboard (feet) |
|---|---|--|------------------|
| Filtration Basin | 958.00 | 955.43 | 2.57 |
| Underground Chamber | 958.00 | 955.45 | 2.55 |
| Riley Creek | 958.00 | 952.1-945.00 | 13.00-5.9 |

Because there are no existing adjacent habitable structures, Rule J, Subsection 3.6b does not impose requirements on the proposed project.

Maintenance

Subsection 3.7 of Rule J requires the submission of a maintenance plan. All stormwater management structures and facilities must be designed for maintenance access and properly maintained in perpetuity to assure that they continue to function as designed. The stormwater management facilities include a rainwater harvest and reuse system, underground chambers, two SciClone units, one Jellyfish unit, a filtration basin, a vegetated swale, sump manhole structures and the Rain Guardian Turret device. The Applicant must provide a draft maintenance and inspection declaration in conformance with Rule J, Subsection 3.7, for approval by RPBCWD staff prior to recordation. To conform to the RPBCWD Rule J the following revisions are needed:

- J1. Permit applicant must provide a maintenance and inspection declaration as required by Rule J, Subsection 3.7. A maintenance declaration template is available on the permits page of the RPBCWD website (<http://www.rpbcwd.org/permits/>). A draft declaration must be provided for District approval prior to recordation as a condition of issuance of the permit. The maintenance plan must include operational parameters for the reuse system, as well as maintenance procedures for the proprietary systems recommended by the manufacturer or installer.

Chloride Management

Subsection 3.8 of Rule J requires the submission of chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan. To close out the permit and release the \$5,000 in financial assurance held for the purpose of chloride management, the permit applicant must provide a chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan at the site.

Wetland Protection

Subsection 3.10 of Rule J requires that no activity subject to this rule may alter a site in a manner that alters the bounce in water level, duration of inundation, or change the runout elevation in the

subwatershed in which the site is located for any wetland receiving discharge directly from the site. While the wetland is downgradient from land disturbing activities, the project proposes a swale to intercept sheet flow discharge from the patio on the north side of the proposed building and landscaping and direct the runoff away from the wetland. Because the proposed activities do not discharge to the protected wetland on the site but alter the tributary area and therefore the discharge the wetland receives from the site, the proposed activities must conform to RPBCWD wetland protection criteria (Rule J, subsection 3.10).

The following table summarizes the allowable change in bounce and inundation duration from Table J1 of RPBCWD Rule J. The information summarized in the following table also summarizes the applicant’s analysis for wetland protection and the potential impacts on the wetlands. The hydrologic models demonstrate that the duration of inundation has not been increased from existing conditions. The submitted materials demonstrate, and RPBCWD engineers concurs, that project is in conformance with Rule J, Subsection 3.10a for the medium value wetland at the site.

| Wetland | RPBCWD Wetland Value | Change in Bounce for, 10-Year Event (feet) | 1-year change in Inundation Period (days) | 2-year change in Inundation Period (days) | 10-year change in Inundation Period (days) | Runout Control Elevation ¹ |
|---------------------------|----------------------|--|---|---|--|---------------------------------------|
| Rule J, Table J1 Criteria | Medium | Existing +/- 1.0 feet | Existing+2 days | Existing+2 days | Existing +14 days | 0 to 1.0 ft above existing runout |
| On-site Wetland | Medium | 0.02 | -0.2 | -0.2 | -0.2 | No change |

Rule J, Subsection 3.10b requires that treatment of runoff to wetlands meet at the water quality treatment criteria in Rule J, subsection 3.1c. Because the site grading is such that runoff from regulated disturbed areas is directed away from the wetland, Rule J, Subsection 3.10b, does not impose requirements on this project.

Rule L: Permit Fee Deposit

The RPBCWD permit fee schedule requires permit applicants to submit a permit-fee deposit of \$3,000 to be held in escrow and applied to reimburse RPBCWD for the permit-application processing fee and permit review and inspection-related costs. When a permit application is approved, the deposit must be replenished to the applicable deposit amount by the applicant before the permit will be issued to cover actual costs incurred to monitor compliance with permit conditions and the RPBCWD Rules. A permit fee deposit of \$3,000 was received on January 22, 2020 under permit number 2020-003. Because the conditional approval under permit 2020-003 has expired and the applicant is required to apply for a new permit, the applicant must replenish the permit fee deposit to the original amount due before the permit will be issued. The replenishment must reimburse RPBCWD for the permit-application processing fee and permit reviews under permit number 2020-003 and 2022-058. Subsequently, if the costs of review, administration, inspections and closeout-related or other regulatory activities exceed the fee deposit amount, the applicant will be required to replenish the deposit to the original amount or such lesser amount as the RPBCWD administrator deems sufficient within 30 days of receiving notice that

such deposit is due. The administrator will close out the relevant application or permit and revoke prior approvals, if any, if the permit-fee deposit is not timely replenished.

- L1. The applicant must replenish the permit fee deposit to the original amount due before the permit will be issued. The amount needed to replenish the permit fee deposit is \$13,491 as of July 27, 2022.

Rule M: Financial Assurance

| | Unit | Unit Cost | # of Units | Total |
|---|------|-----------|------------|------------------|
| Rules C: Silt fence: | LF | \$2.50 | 4000 | \$10,000 |
| Inlet protection | EA | \$100 | 9 | \$900 |
| Rock Entrance | EA | \$250 | 1 | \$250 |
| Restoration | Ac | \$2,500 | 2.9 | \$7,250 |
| Rules J: Chloride Management | LS | \$5,000 | 1 | \$5,000 |
| Rules J: Stormwater Management: 125% of engineer’s opinion of cost (\$247,820– sump manhole structures and the Rain Guardian Turret device, rainwater harvest and reuse system, underground chambers, two SciClone units, one Jellyfish unit, and a filtration basin) | EA | 125% OPC | 1 | \$309,775 |
| Contingency (10%) | | 10% | | \$33,318 |
| Total Financial Assurance | | | | \$366,493 |

Applicable General Requirements:

1. The RPBCWD Administrator and Engineer shall be notified at least three days prior to commencement of work.
2. Construction shall be consistent with the plans and specifications approved by the District as a part of the permitting process. The date of the approved plans and specifications is listed on the permit.
3. Construction must be consistent with the plans, specifications, and models that were submitted by the applicant that were the basis of permit approval. The date(s) of the approved plans, specifications, and modeling are listed on the permit. The grant of the permit does not in any way relieve the permittee, its engineer, or other professional consultants of responsibility for the permitted work.
4. The grant of the permit will not relieve the permittee of any responsibility to obtain approval of any other regulatory body with authority.
5. The issuance of this permit will not convey any rights to either real or personal property, or any exclusive privileges, nor will it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.
6. In all cases where the doing by the permittee of anything authorized by this permit involves the taking, using or damaging of any property, rights or interests of any other person or persons, or

of any publicly owned lands or improvements or interests, the permittee, before proceeding therewith, must acquire all necessary property rights and interest.

7. RPBCWD's determination to approve the permit application was made in reliance on the information provided by the applicant. Any substantive change in the work affecting the nature and extent of applicability of RPBCWD regulatory requirements or substantive changes in the methods or means of compliance with RPBCWD regulatory requirements must be the subject of an application for a permit modification to the RPBCWD.
8. If the conditions herein are met and the permit is issued by RPBCWD, the applicant, by accepting the permit, grants access to the site of the work at all reasonable times during and after construction to authorized representatives of the RPBCWD for inspection of the work.

Findings

As supported and described by the analysis that follows, the engineer finds:

1. The proposed project includes the information necessary, plan sheets, modeling, and erosion control plan for review.
2. The proposed project will conform to Rules B, C, D, G and J if the Rule Specific Permit Conditions listed above are met.
3. Under Minnesota Department of Natural Resources General Permit 2015-1192 (attached to this report), approval of work under RPBCWD rule(s) G constitutes approval under applicable DNR work in waters rules. Compliance with conditions on approval and payment of applicable fees, if any, are necessary to benefit from general permit approval and the responsibility of the applicants.

Recommendation:

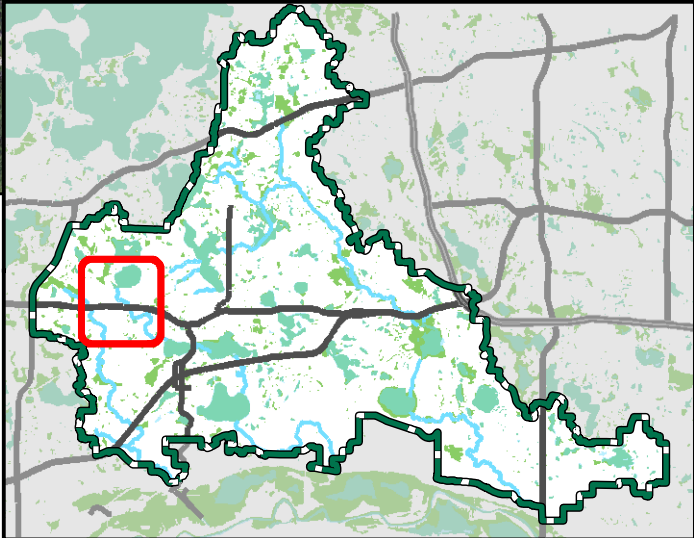
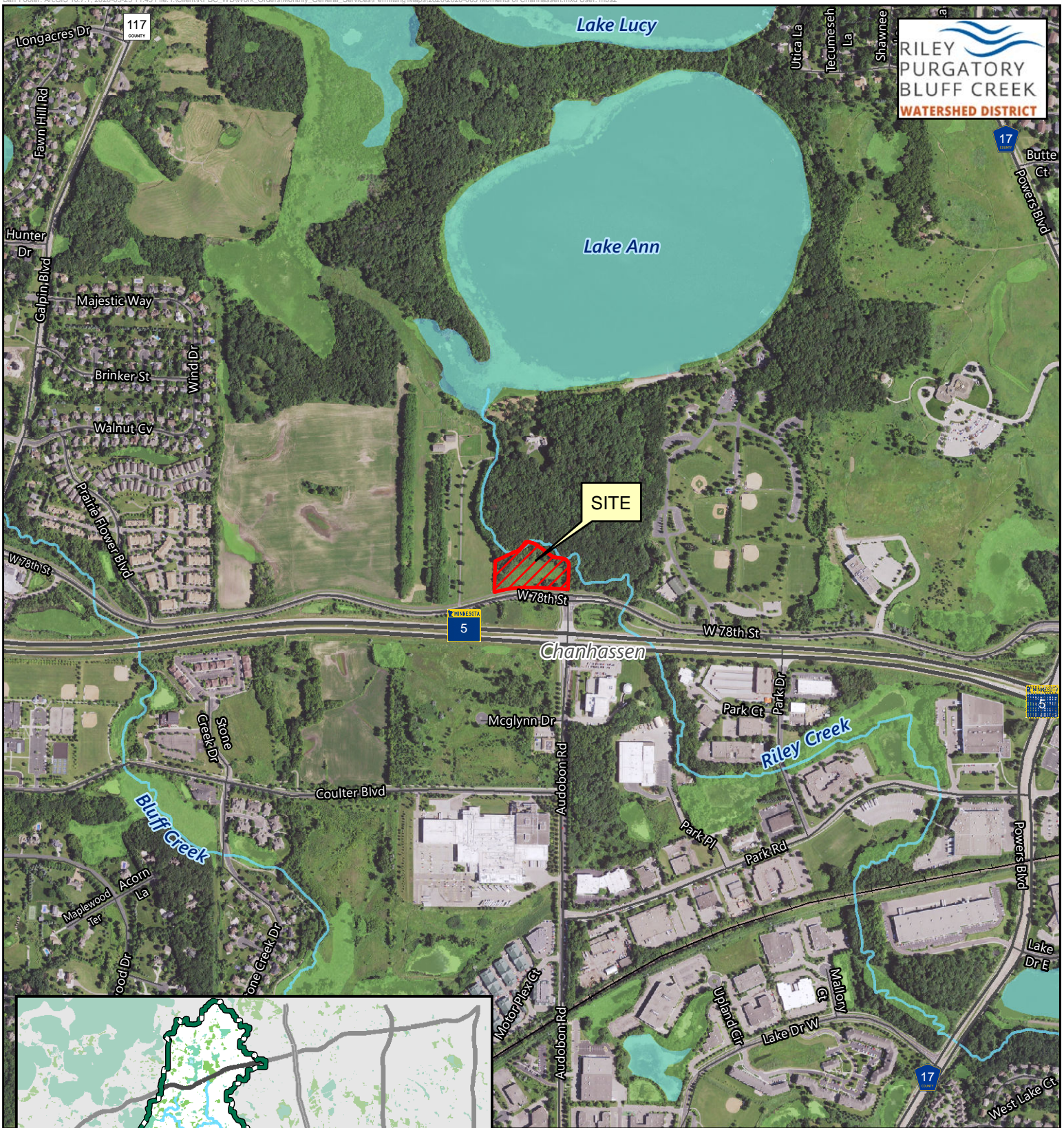
Approval, contingent upon:

1. Continued compliance with General Requirements
2. Financial Assurance in the amount of \$366,493.
3. Receipt of updated drawings to
 - a. adjust the location of the proposed building or the building design modified to provide a minimum of 100 feet of separation between the centerline of Riley Creek and the building.
4. Permit applicant must provide the name and contact information of the general contractor responsible for the site. RPBCWD must be notified if the responsible party changes during the permit term.
5. The applicant must replenish the permit fee deposit to \$3,000 due before the permit will be issued. The amount needed to replenish the permit fee deposit is \$13,491 as of July 27, 2022.

6. Receipt by RPBCWD of documentation of recordation of a maintenance declaration for the outfall to Riley Creek, buffers, and stormwater management facilities. A draft must be reviewed and approved by the District prior to recordation and proof of recordation must be provided to RPBCWD prior to issuance of the permit. The maintenance plan must include operational parameters for the reuse system, as well as maintenance procedures for the proprietary systems recommended by the manufacturer or installer.

By accepting the permit, when issued, the applicant agrees to the following stipulations:

1. Continued compliance with General Requirements.
2. The applicant provides proof of recordation that drainage and flowage easements over all land below the 100-year flood elevation have been conveyed to the municipality with jurisdiction, if required.
3. Per Rule J Subsection 4.5, upon completion of the site work, the permittee must submit as-built drawings demonstrating that at the time of final stabilization the stormwater management facilities conforms to design specifications and functions as intended and approved by the District. As-built/record drawings must be signed by a professional engineer licensed in Minnesota and include, but not limited to:
 - a) the surveyed bottom elevations, water levels, and general topography of all facilities;
 - b) the size, type, and surveyed invert elevations of all stormwater facility inlets and outlets;
 - c) the surveyed elevations of all emergency overflows including stormwater facility, street, and other;
 - d) other important features to show that the project was constructed as approved by the Managers and protects the public health, welfare, and safety.
4. Documentation that constructed filtration facilities perform as designed. This may include filtration testing, flood testing, or other with prior approval from RPBCWD.
5. To close out the permit and release the \$5,000 in financial assurance held for the purpose of the chloride management, the permit applicant must provide an executed chloride management plan that designates the individual authorized to implement the chloride management plan and the MPCA-certified salt applicator engaged in implementing the plan at the site.
6. The work on the Moments of Chanhassen parcel under the terms of permit 2022-058, if issued, must have an impervious surface area and configuration materially consistent with the approved plans. Design that differs materially from the approved plans (e.g., in terms of total impervious area) will need to be the subject of a request for a permit modification or new permit, which will be subject to review for compliance with all applicable regulatory requirements.
7. Replenish the permit fee deposit to the original amount or such lesser amount as the RPBCWD administrator deems sufficient within 45 days of receiving notice that such deposit is due in order to cover continued actual costs incurred to monitor compliance with permit conditions and the RPBCWD Rules.
8. The Department of Natural Resources General Permit #2015-1192 applies to authorize the work in Riley Creek as long as the permittee complies with the conditions of the general permit, which is attached to this report.



Permit Location Map



Feet

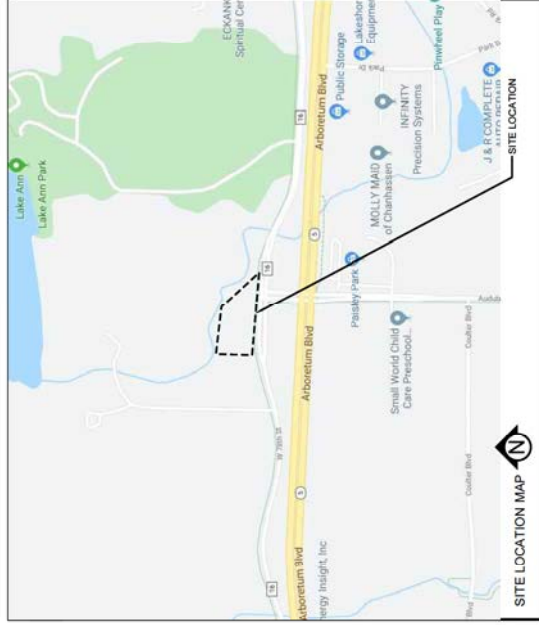


MOMENTS OF CHANHASSEN
Permit 2022-058
 Riley Purgatory Bluff Creek
 Watershed District

MOMENTS OF CHANHASSEN

CHANHASSEN, MINNESOTA

ISSUED FOR: WATERSHED RESUBMITTAL



CivilSite
Group
Civil Engineering Surveying Landscape Architecture
14001 Cedar Lake Road
Golden Valley, MN 55422
Tel: 763.471.7500
Fax: 763.471.7501
www.civilsite.com

THE MOMENTS

MEMORY CARE
reimagined

TMSOC OF CHANHASSEN LLC
1629 KENYON AVE. LAKEVILLE, MN 55004

MOMENTS OF CHANHASSEN
1660 ARBORTUM BLVD, CHANHASSEN, MN 55317
PROJECT

THIS IS A PRELIMINARY DESIGN. NO WARRANTY IS MADE BY THE ARCHITECT OR ENGINEER FOR THE ACCURACY OF THIS DOCUMENT. THE ARCHITECT AND ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER AND SAFE APPLICATION OF THIS DOCUMENT TO THE PROJECT. THE ARCHITECT AND ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER AND SAFE APPLICATION OF THIS DOCUMENT TO THE PROJECT.

DATE: 10/27/2023

DRAWN BY: M. R. PEYER

REVIEWED BY: [Signature]

PROJECT NUMBER: 2222

| SHEET NUMBER | SHEET TITLE |
|--------------|--|
| C0.0 | TITLE SHEET |
| V1.0 | SITE SURVEY |
| C1.0 | UTILITY PLAN - WATER & SANITARY SEWER |
| C2.0 | UTILITY PLAN - STORM SEWER |
| C3.0 | GRADING PLAN |
| C4.0 | UTILITY PLAN - WATER & SANITARY SEWER |
| C4.1 | UTILITY PLAN - SANITARY SEWER CONNECTION - MNDOT ROW |
| C4.2 | UTILITY PLAN - STORM SEWER |
| C5.1 | DETAILS |
| C5.2 | DETAILS |
| C5.3 | DETAILS |
| L1.0 | LANDSCAPE PLAN - NOTES & DETAILS |
| L2.0 | PHOTOMETRIC PLAN |
| SWI.0 | SWPPP - EXISTING CONDITIONS |
| SWI.1 | SWPPP - PROPOSED CONDITIONS |
| SWI.2 | SWPPP - DETAILS |
| SWI.3 | SWPPP - NARRATIVE |
| SWI.4 | SWPPP - ATTACHMENTS |

| SHEET NUMBER | SHEET TITLE |
|--------------|--|
| C0.0 | TITLE SHEET |
| V1.0 | SITE SURVEY |
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| C2.0 | UTILITY PLAN - STORM SEWER |
| C3.0 | GRADING PLAN |
| C4.0 | UTILITY PLAN - WATER & SANITARY SEWER |
| C4.1 | UTILITY PLAN - SANITARY SEWER CONNECTION - MNDOT ROW |
| C4.2 | UTILITY PLAN - STORM SEWER |
| C5.1 | DETAILS |
| C5.2 | DETAILS |
| C5.3 | DETAILS |
| L1.0 | LANDSCAPE PLAN - NOTES & DETAILS |
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| SWI.2 | SWPPP - DETAILS |
| SWI.3 | SWPPP - NARRATIVE |
| SWI.4 | SWPPP - ATTACHMENTS |

MASTER LEGEND:

EL - CONTOUR ELEVATION INTERVAL
EXISTING SPOT GRADE ELEVATION

1/2 CONTOUR ELEVATION INTERVAL
VALUES (OTHERWISE NOTED)

SPOT GRADE ELEVATION TOP OF CURB (GUTTER TOP)
VALUES (OTHERWISE NOTED)

SPOT GRADE ELEVATION TOP OF WALL
VALUES (OTHERWISE NOTED)

SPOT GRADE ELEVATION BOTTOM OF WALL
VALUES (OTHERWISE NOTED)

DRAINAGE ARROW

EMERGENCY OVERTURN
EXP-115/8.0

CONSTRUCTION LIMITS

SET FENCE

INLET PROTECTION

STABILIZED CONSTRUCTION ENTRANCE

SEE BORING LOCATION
CRS AND GUTTER (T.O. - TIP OUT)

PROPOSED MANHOLE STORM

PROPOSED CATCH BASIN OR CATCH BASIN MANHOLE STORM

PROPOSED WATE VALVE

PROPOSED FIRE HYDRANT

PROPOSED MANHOLE SANITARY

PROPOSED SEWER

PROPOSED SANITARY SEWER

PROPOSED STORM SEWER

PROPOSED WATER MAIN

PROPOSED SANITARY SEWER

EXISTING STORM SEWER

EXISTING WATER MAIN

EXISTING GAS MAIN

EXISTING UNDERGROUND ELECTRIC

EXISTING UNDERGROUND CABLE

EXISTING MANHOLE

EXISTING CATCH BASIN

EXISTING HYDRANT

EXISTING STORED

EXISTING GATE VALVE

EXISTING WATER MAIN

EXISTING GAS MAIN

EXISTING UNDERGROUND ELECTRIC

EXISTING UNDERGROUND CABLE

EXISTING LIGHT

EXISTING GAS METER

EXISTING GAS VALVE

EXISTING ELECTRICAL BOX

ARCHITECT:
TMSOC OF CHANHASSEN
1629 KENYON AVE
LAKEVILLE, MN 55004
952-915-1515

DEVELOPER / PROPERTY OWNER:
TMSOC OF CHANHASSEN
1629 KENYON AVE
LAKEVILLE, MN 55004
952-915-1515

ENGINEER / LANDSCAPE ARCHITECT / SURVEYOR:
CIVIL SITE GROUP
2500 S. WISCONSIN AVE
GOLDEN VALLEY, MN 55422
952-915-1515

GEOTECHNICAL ENGINEER:
HALGO GEOTECHNICAL SERVICES
12500 W. LAKELAND AVE
MINNEAPOLIS, MN 55440
952-729-2599

Know what's below.
Call before you dig.

TITLE SHEET

C0.0

CONSOLIDATE PER PROJECT

SITE BENCHMARK

Point ID: 250210020
 Description: 1" x 1" x 1" Benchmark
 Address: 1450 78th St
 City: Carver, MN
 Elevation: 192.73 feet

Point ID: 250210005
 Description: 1" x 1" x 1" Benchmark
 Address: 1450 78th St
 City: Carver, MN
 Elevation: 192.73 feet

REVISION SUMMARY

NOVEMBER 2011

1. Plan prepared for the City of Carver. (Scale 1" = 40')

DECEMBER 2011

2. Plan revised to reflect the City of Carver's requirements. (Scale 1" = 40')

FEBRUARY 2012

3. Plan revised to reflect the City of Carver's requirements. (Scale 1" = 40')

JULY 2012

4. Plan revised to reflect the City of Carver's requirements. (Scale 1" = 40')

PROJECT

MOMENTS OF CHANHASSEN
 1620 & 1650 Arboretum Boulevard, Chanhassen, Carver County, Minnesota

FOR: Moments

1625E Kenyon Ave, Lakeview, MN 55044



ALTA CERTIFICATION

The Northern, LLC and Old Republic National Title Insurance Company... made to accordance with the 2015 Minimum Standards of Practice for ALTA and AIA Certifications as published by the National Automated Clearinghouse Association (NACI)...

- MARKING KEYS:**
- The area depicted was compared with the records of a Commissioner for the State of Minnesota as of March 3, 2015. The area shown hereafter may require a survey or other means of verification.
 - Items 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100 are not shown hereafter.
- Linetype & Symbol Legend**
- | | |
|-----------------|------------------|
| FERRET | CONCRETE SURFACE |
| GRAVEL | ASPHALT |
| ROADWAY SURFACE | GRASS |
| POLE | MONUMENT |
| UTILITY | POST |
| ... | ... |

DESCRIPTION OF PROJECTS-SUBJECT

This plan was prepared for the City of Carver, Minnesota, for the purpose of... This plan was prepared for the City of Carver, Minnesota, for the purpose of... This plan was prepared for the City of Carver, Minnesota, for the purpose of...

NOTES

- Survey is based on the Carver County Coordinate System (1986-463).
- Site Address: 1620 and 1650 Arboretum Blvd, Chanhassen, MN 55317.
- This property is bounded to the north by a line determined to be outside the recorded plat of 1990, Carver County, Minnesota, plat No. 200210005, effective date of July 24, 1979.
- The gross land area is 152,216.77 square feet or 3.5 +/- acres.
- Conditions are based on 192002005, State Aerial Photo, CA 11 192019.
- This survey has not received an official acknowledgment as part of this survey. Please note that the general restrictions for the subject property may have been amended or revised since the date of this survey. The responsibility for this is with the owner of the subject property.
- Substantial features of which we are aware of are shown hereon.
- The area to be surveyed is an undivided parcel.
- We have shown the location of utility lines in the vicinity of the subject property based on our own observation, utility company records, maps, and other available information. Utility lines are shown here as a guide only. There are no warranties as to their location, depth, or other characteristics. Utility companies should be contacted for more information.
- The location of utility lines shown here is based on information provided to us by the utility companies. We do not warrant the location of any utility lines shown here.
- The location of utility lines shown here is based on information provided to us by the utility companies. We do not warrant the location of any utility lines shown here.

ALTA/ALTA-RESURVEYING TITLE SURVEY

V1.0

MOMENTS OF CHANHASSEN
 1620 & 1650 Arboretum Boulevard, Chanhassen, Carver County, Minnesota

FOR: Moments

1625E Kenyon Ave, Lakeview, MN 55044

Civilsite

4976 W. 25TH AVE. SUITE 200
 CARVER, MN 55317
 PH: 763.294.2344
 FAX: 763.294.2000

REVISION SUMMARY

NOVEMBER 2011
 DECEMBER 2011
 FEBRUARY 2012
 JULY 2012

PROJECT

MOMENTS OF CHANHASSEN
 1620 & 1650 Arboretum Boulevard, Chanhassen, Carver County, Minnesota

FOR: Moments

1625E Kenyon Ave, Lakeview, MN 55044

ALTA/ALTA-RESURVEYING TITLE SURVEY

V1.0

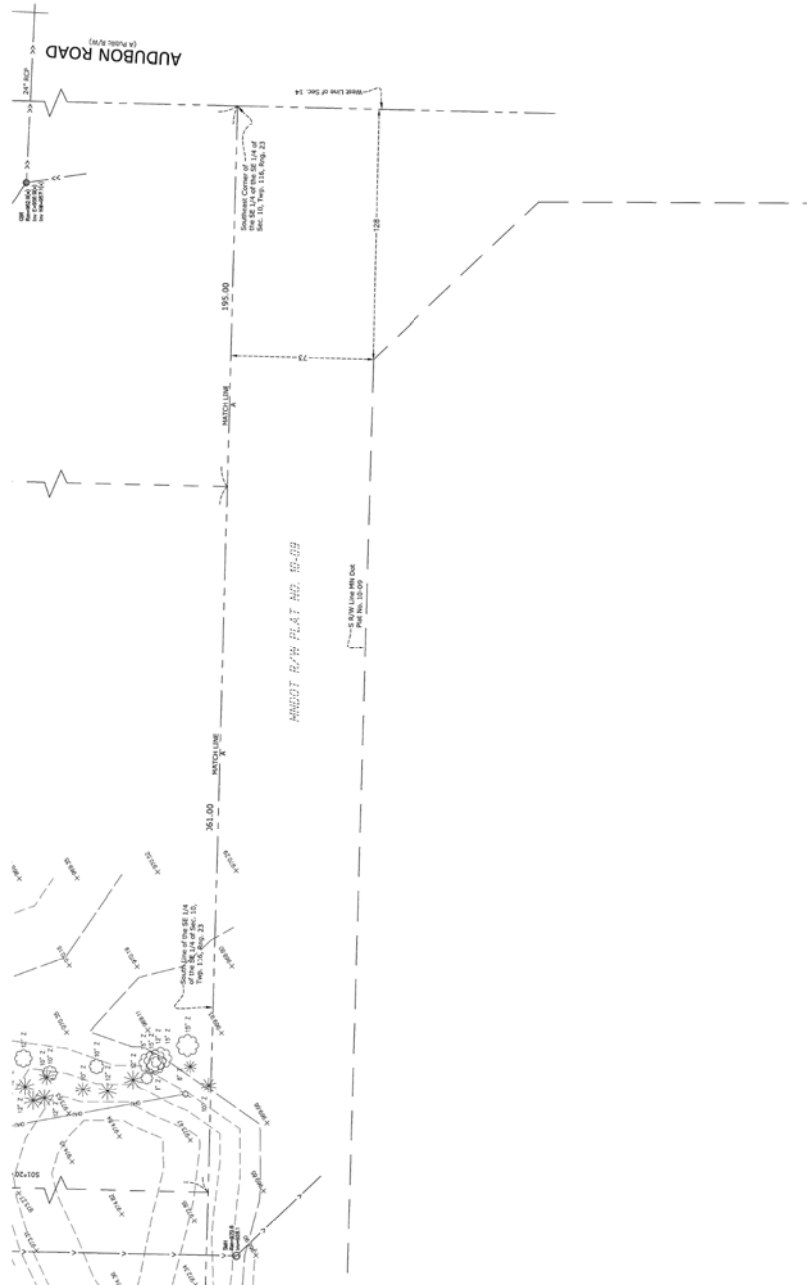
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATIONS AND INSTRUMENTATION HAS BEEN PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MINNESOTA.

DATE: 12/22/22. LICENSE NO.: 48332.
 KEVIN L. JENSEN
 CIVIL ENGINEER

VICINITY MAP



SITE BENCHMARK
 Mark = 1/4" x 1/2" x 1/4" x 1/4" x 1/4"
 IN DIVISION OF 862.45 MC.



Linetype & Symbol Legend

| | | | |
|-----|-----------------------|---|-----------------------|
| F1 | FINE OPTIC | B | 48 CONDITONER |
| F2 | GARDEN | B | ROAD |
| F3 | SEWER | B | ELECTRIC MANHOLE |
| F4 | STORM SEWER | B | STORM MANHOLE |
| F5 | WATER MAIN | B | WATER MANHOLE |
| F6 | ELECTRIC LINE | B | WATER VALVE |
| F7 | CABLE LINE | B | WATER METER |
| F8 | CONCRETE SURFACE | B | POWER POLE |
| F9 | PAVED SURFACE | B | 111 |
| F10 | RETAINMENT SURFACE | B | FOUND IRON INSTRUMENT |
| F11 | GRAVEL LANDSCAPE | B | SET IRON INSTRUMENT |
| F12 | LANDSCAPE | B | BY OTHERS |
| S1 | SEWER MANHOLE | B | CONIFEROUS TREE |
| S2 | STORM MANHOLE | B | DECIDUOUS TREE |
| S3 | WATER MANHOLE | B | |
| S4 | WATER VALVE | B | |
| S5 | WATER METER | B | |
| S6 | POWER POLE | B | |
| S7 | FOUND IRON INSTRUMENT | B | |
| S8 | SET IRON INSTRUMENT | B | |
| S9 | BY OTHERS | B | |
| S10 | CONIFEROUS TREE | B | |
| S11 | DECIDUOUS TREE | B | |



MEMORY CARE
reimagined

PRELIMINARY:
NOT FOR
CONSTRUCTION

MOMENTS OF CHANHASSEN
1660 ARBORETUM BLVD., CHANHASSEN, MN 55317
TMSOC OF CHANHASSEN LLC
16295 KENYON AVE LAKEVILLE, MN 55004

PROJECT
1. DESIGN AND CONSTRUCTION OF THE BUILDING AND SITEWORK FOR THE MEMORY CARE FACILITY AT THE INTERSECTION OF ARBORETUM BLVD AND KENYON AVE IN CHANHASSEN, MN. THE PROJECT INCLUDES THE CONSTRUCTION OF THE BUILDING, SITEWORK, AND LANDSCAPE ARCHITECTURE.

DESIGNED BY
MOMENTS OF CHANHASSEN
DRAWN BY
JL, JS, MS
REVIEWED BY
PS
PROJECT NUMBER: 1222
DATE DESCRIBED

ISSUE/PERMITTAL SUMMARY

| | |
|--------|-------------------------|
| 202101 | ISSUE/PERMITTAL SUMMARY |
| 202102 | ISSUE/PERMITTAL SUMMARY |
| 202103 | ISSUE/PERMITTAL SUMMARY |
| 202104 | ISSUE/PERMITTAL SUMMARY |
| 202105 | ISSUE/PERMITTAL SUMMARY |
| 202106 | ISSUE/PERMITTAL SUMMARY |
| 202107 | ISSUE/PERMITTAL SUMMARY |
| 202108 | ISSUE/PERMITTAL SUMMARY |
| 202109 | ISSUE/PERMITTAL SUMMARY |
| 202110 | ISSUE/PERMITTAL SUMMARY |
| 202111 | ISSUE/PERMITTAL SUMMARY |
| 202112 | ISSUE/PERMITTAL SUMMARY |

GRADING PLAN
C3.0

GENERAL GRADING NOTES:

- SEE PLAN FOR HORIZONTAL LAYOUT OF GENERAL GRADING NOTES.
- THE CONTRACTOR SHALL HAVE AN INITIAL DESIGN CONTROL INSPECTION AND A SITE WALK THROUGH WITH THE ENGINEER AND THE CITY ENGINEER TO VERIFY THE GRADING AND CONSTRUCTION OF THE SITE. THROUGH WATER RESOURCES COORDINATION (SR2022-1173) AND TREE WALK THROUGH FOR ENVIRONMENTAL RESOURCES (SR2022-1135), REQUIREMENTS MUST BE OBTAINED PRIOR TO OPERATIONS COMMENCING.
- THE CONTRACTOR SHALL COMPLETE THE SITE GRADING CONSTRUCTION INCLUDING BUT NOT LIMITED TO THE CONSTRUCTION OF THE FOUNDATION, EXTERIOR WALLS, AND ROOFING. ALL SOIL TESTING SHALL BE COMPLETED BY THE OWNER'S SOIL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOIL TESTS AND INSPECTIONS WITH THE SOIL ENGINEER.
- GRADING AND EXCAVATION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH THE NATURAL POLLUTION PREVENTION SYSTEM (NPPS) PERMIT REQUIREMENTS & PERMIT REQUIREMENTS OF THE CITY.
- PROPOSED SPOT GRADES ARE FLOWLINE FINISHED GRADE ELEVATIONS, UNLESS OTHERWISE NOTED.
- GRADES OF 1% OR MORE SHALL BE INSTALLED WITH 1% MAX. LONGITUDINAL SLOPE AND 1% MIN. AND GRADES OF 1% OR MORE SHALL NOT EXCEED 1% UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
- MAXIMUM SLOPES IN MAINTAINED AREAS IS 4:1.
- PROPOSED RETAINING WALLS, FREESTANDING WALLS, OR COMBINATION OF WALL TYPES GREATER THAN 10' IN HEIGHT SHALL BE DESIGNED AND ENGINEERED BY A REGISTERED RETAINING WALL ENGINEER. DESIGN DRAWINGS SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OF GRADE FINISH THROUGHOUT THE DURATION OF CONSTRUCTION TO ESTABLISH PROPER GRADES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR A FINAL CHECK OF FINISHED GRADES ACCEPTABLE TO THE ENGINEER/LANDSCAPE ARCHITECT PRIOR TO TOPSOIL AND SEEDING ACTIVITIES.
- IF EXCESS OR SHORTAGE OF SOIL MATERIAL EXISTS, THE CONTRACTOR SHALL TRANSPORT ALL EXCESS OR SHORTAGE OF SOIL MATERIAL TO THE SITE, IF EXPORTING IN EXCESS OF 50 CY TO A SITE IN CHANHASSEN, A SEPARATE GRADING PERMIT IS REQUIRED ON THE RECEIVING SITE.
- EXCESS TOPSOIL FROM AREAS TO BE EXPOSED TO GRADES OR EXCAVATIONS SHALL BE STORED IN AN AREA OF GRADING, INCLUDING ADJACENT TRANSPORT AREAS, PROVIDE A SMOOTH SURFACE ON THE SITE AS SPECIFIED, EXCESS TOPSOIL SHALL BE PLACED IN MAINTAINED AREAS OUTSIDE OF BUILDING PADES, ROADWAYS AND PARKING AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OF GRADE FINISH THROUGHOUT THE DURATION OF CONSTRUCTION TO ESTABLISH PROPER GRADES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR A FINAL CHECK OF FINISHED GRADES ACCEPTABLE TO THE ENGINEER/LANDSCAPE ARCHITECT PRIOR TO TOPSOIL AND SEEDING ACTIVITIES.
- CONTRACTOR SHALL PLAN FOR AND OBTAIN APPROVAL BY CITY FOR STORABLE AREAS PRIOR TO GRADING.
- FINISHED GRADING SHALL BE COMPLETED. THE CONTRACTOR SHALL UNIFORM GRADE AREAS WITHIN AREAS OF GRADING, INCLUDING ADJACENT TRANSPORT AREAS, PROVIDE A SMOOTH SURFACE ON THE SITE AS SPECIFIED, EXCESS TOPSOIL SHALL BE PLACED IN MAINTAINED AREAS OUTSIDE OF BUILDING PADES, ROADWAYS AND PARKING AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OF GRADE FINISH THROUGHOUT THE DURATION OF CONSTRUCTION TO ESTABLISH PROPER GRADES. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR A FINAL CHECK OF FINISHED GRADES ACCEPTABLE TO THE ENGINEER/LANDSCAPE ARCHITECT PRIOR TO TOPSOIL AND SEEDING ACTIVITIES.
- THE BUILDING SURFACE FINISHED GRADE ELEVATION SHALL NOT VARY BY MORE THAN 1/8" FROM THE FINISHED GRADE ELEVATION AT ANY POINT WHERE MEASUREMENT IS MADE.
- THE STREET OR PARKING AREA SURFACE FINISHED GRADE ELEVATION SHALL NOT VARY BY MORE THAN 1/8" FROM THE FINISHED GRADE ELEVATION AT ANY POINT WHERE MEASUREMENT IS MADE.
- AREAS WHICH ARE TO RECEIVE TOPSOIL SHALL BE GRADDED TO WITHIN 1/8" OF THE FINISHED GRADE ELEVATION. ALL AREAS DIRECTED OTHERWISE BY THE ENGINEER, SHALL BE GRADDED TO WITHIN 1/8" OF THE FINISHED GRADE ELEVATION.
- MAINTENANCE.
- THE BUILDING SURFACE FINISHED GRADE ELEVATION SHALL NOT VARY BY MORE THAN 1/8" FROM THE FINISHED GRADE ELEVATION AT ANY POINT WHERE MEASUREMENT IS MADE.
- CONTRACTOR SHALL REPAIR AND REESTABLISH GRADES IN SETTLED, ERODED AND BUTTED AREAS TO SPECIFIED TOLERANCES DURING THE CONSTRUCTION. IF PROBED AND BUTTED AREAS TO SPECIFIED TOLERANCES DURING THE CONSTRUCTION, THESE TOPS TO BE ESTABLISHED DURING THE MAINTENANCE PERIOD. EXCESS AREAS WHERE TOPS TO BE TO BE ESTABLISHED DURING THE MAINTENANCE PERIOD SHALL BE GRADDED TO WITHIN 1/8" OF THE FINISHED GRADE ELEVATION.

GRADING PLAN LEGEND:

SOIL BORING

EX: 1 CONTOUR ELEVATION INTERNAL
12 CONTOUR ELEVATION INTERNAL
UNLESS OTHERWISE NOTED

SPOT GRADE ELEVATION CUTTER
SPOT GRADE ELEVATION TOP OF CURB
SPOT GRADE ELEVATION BOTTOM OF STAIRS TOP OF STAIRS
CURB AND GUTTER (C.G. = 10' OUT)

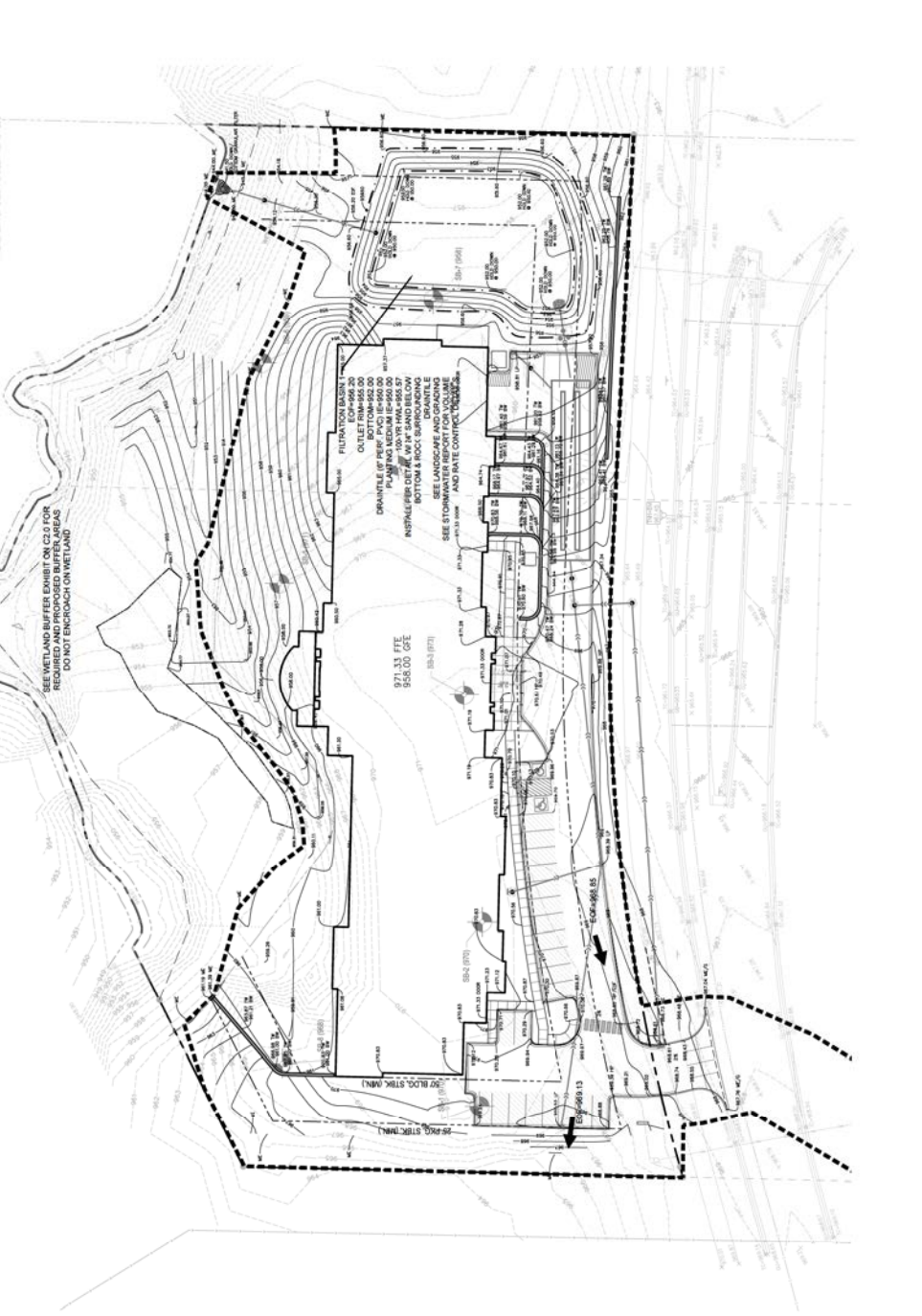
EMERGENCY OVERFLOW
EOP=1155.52

Know what's below.
Call before you dig.
1-800-4-A-DIG

North Arrow
Scale: 1" = 20'

CITY OF CHANHASSEN GRADING NOTES:

- CONTRACTOR TO PROVIDE FINAL ROUTES AND FINAL PROPOSED STODDERS LOCATIONS FOR ANY REQUIRED CUTTER.
- AT LEAST 18 INCHES OF TOPSOIL OR ORGANIC MATTER MUST BE SPREAD AND COMPACTED TO THE FINISHED GRADE ELEVATION. THE TOPSOIL MUST BE TREATED WHEREVER TOPSOIL HAS BEEN REMOVED.



EROSION CONTROL NOTES:

- SEE SWPPP ON SHEETS SW-05001.3
- GROUNDWATER INFORMATION:**
- GROUNDWATER WAS OBSERVED AT ELEVATIONS RANGING FROM 944.0 TO 945.0 DURING THE CONSTRUCTION OF THE PROJECT. THE BENCHMARK ELEVATION WAS 945.0. THE BENCHMARK WAS OBSERVED AT ELEVATIONS RANGING FROM 944.0 TO 945.0.
- | | | |
|----|-------|--------------|
| B1 | 954.0 | NOT OBSERVED |
| B2 | 947.0 | NOT OBSERVED |
| B3 | 947.0 | NOT OBSERVED |
| B4 | 947.0 | NOT OBSERVED |
| B5 | 947.0 | NOT OBSERVED |
| B6 | 947.0 | NOT OBSERVED |

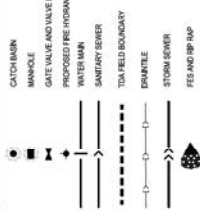
GENERAL UTILITY NOTES:

1. SEE PLAN FOR EXISTING MANHOLE AND UTILITY.
2. CONTRACTORS SHALL VERIFY LOCATION AND DEPTH OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF DISCREPANCIES OR VARIATIONS FROM THE PLANS.
3. ALL EXISTING UTILITIES LOCATIONS SHOWN ON THIS PLAN AND ANY UTILITIES NOT SHOWN ON THIS PLAN SHALL BE THE PROPERTY OF THE CITY OF CHANHASSEN. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES BEFORE CONSTRUCTION. THE CONTRACTOR SHALL REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION ACCORDING TO LOCAL CODES AND STANDARDS.
4. SPECIFICATIONS FOR WATER MAIN AND SERVICE LINE INSTALLATION AND SANITARY SEWER AND STORM SEWER INSTALLATION AS PREPARED BY THE CITY ENGINEERS AND ADAPTED TO THE PROJECT SPECIFICATIONS SHALL GOVERN OVER THE REQUIREMENTS OF THE CITY AND THE PROJECT SPECIFICATIONS.
5. CATCHBASINS SHALL BE SITUATED FROM STRUCTURE REMOVALS AND BE LOCATED ON THE DIRECTION OF THE DOWNHILL.
6. ALL INTERIOR PIPE SHALL BE O.D. UNLESS OTHERWISE NOTED.
7. ALL INTERIOR MANHOLES SHALL BE 42" DIA. UNLESS OTHERWISE NOTED.
8. ALL EXTERIOR MANHOLES SHALL BE 48" DIA. UNLESS OTHERWISE NOTED.
9. ALL EXTERIOR PIPE SHALL BE HDPE 451M FT/14.1 F208 WITH ASTM D2621 SPEC FITTINGS UNLESS OTHERWISE NOTED.
10. PIPE ENDINGS SHOWN ARE FROM CENTER OF STRUCTURE OR TO END OF FLARED ENDING UNLESS OTHERWISE NOTED.
11. UTILITIES ON THIS PLAN ARE SHOWN TO MATCH UP TO THE BUILDING FOOTPRINT. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE FINAL CONNECTION TO BUILDING LINES. COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS.
12. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES BEFORE CONSTRUCTION. ALL CATCHBASIN LOCATIONS SHALL BE SURVEYED AND NOTED. ELEVATIONS SHOWN ON THIS PLAN DO NOT REFLECT SURVEYED ELEVATIONS.
13. ALL EXTERIOR MANHOLES SHALL BE LOCATED 1' FEET BEHIND BACK OF CURB UNLESS OTHERWISE NOTED.
14. HYDRAULIC TYPE, SIZE, AND CONNECTION SHALL BE IN ACCORDANCE WITH CITY REQUIREMENTS. HYDRAULIC TYPE SHALL BE INDICATED.
15. A MINIMUM OF 6 FEET OF COVER IS REQUIRED OVER ALL WATERMAIN UNLESS OTHERWISE NOTED. ALL CONNECTIONS TO EXISTING WATERMAIN SHALL BE 10 FEET OF SEPARATION TO SANITARY OR EXISTING WATERMAIN. SEPTIC WATERMAIN IS SEPARATE FROM ALL UTILITIES UNLESS OTHERWISE NOTED.
16. A MINIMUM OF 6 INCHES OF SEPARATION IS REQUIRED BETWEEN ALL UTILITIES UNLESS OTHERWISE NOTED.
17. CONNECTIONS TO EXISTING UTILITIES SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND APPROVED BY THE CITY ENGINEER AND CONTRACTOR. CONTRACT PLANS SHALL SHOW AT LEAST 2' SEPARATION.
18. COORDINATE LOCATIONS AND SIZES OF SERVICE CONNECTIONS WITH THE MECHANICAL ENGINEER.
19. COORDINATE CONNECTIONS AND SIZES OF SERVICE CONNECTIONS WITH THE MECHANICAL ENGINEER.
20. ALL STREET SIDINGS AND PATCHING SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CITY PER CITY LOCAL PLATE ROAD. ALL PATCHING CONNECTIONS SHALL BE SURVEYED. ALL PATCHING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MINNESOTA MANUAL ON UTILITY TRAFFIC CONTROL, DEVICES, AND SIGNAGE. THE CONTRACTOR SHALL NOT BE LIMITED TO SIGNAGE, BARRELS, CUES, AND TRAFFIC CONTROLS. ALL PATCHING SHALL BE PERMITTED WITHOUT APPROVAL BY THE CITY.
21. ALL STRUCTURES, PUBLIC AND PRIVATE, SHALL BE ADJUSTED TO PROPOSED GRADES WHERE NECESSARY TO MEET CITY STANDARDS AND REQUIREMENTS FOR TRAFFIC. SEE CITY STANDARDS AND REQUIREMENTS FOR TRAFFIC ADJUSTMENT.
22. CONTRACTOR SHALL COORDINATE ALL WORK WITH PRIVATE UTILITY COMPANIES.
23. COORDINATE THE INSTALLATION OF PERMITS NECESSARY AS TO UTILITIES. CONTRACTOR SHALL COORDINATE CONNECTION OF PERMITS SERVICE TO UTILITIES.
24. CONTRACTOR SHALL MAINTAIN ACCESSIBLE TRAILS THROUGHOUT CONSTRUCTION AND DEMIT THE TRAILS TO ENGINEER A CITY UPON COMPLETION OF WORK.
25. ALL JOINTS AND CONNECTIONS IN STORM SEWER SYSTEM SHALL BE CAST-IRON OR WATERBURY. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES BEFORE CONSTRUCTION. CONTRACTOR SHALL MAKE WATERBURY CONNECTIONS TO EXISTING MANHOLES, CATCHBASINS, OR OTHER STRUCTURES.
26. ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10 FEET OF THE BUILDING OR OTHER STRUCTURE SHALL BE CAST-IRON UNLESS OTHERWISE NOTED IN THE CITY ENGINEER'S WATER SERVICE LINE. THIS LINE MUST BE TESTED IN ACCORDANCE WITH MN RULES CHAPTER 874.00. CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES BEFORE CONSTRUCTION. CITY LINES ARE NOT TO BE USED.
27. SANITARY SEWER MANHOLE LIDS MUST BE WATERBURY (NO POLYOLEFIN) PER CITY STANDARDS. CITY LINES ARE NOT TO BE USED.

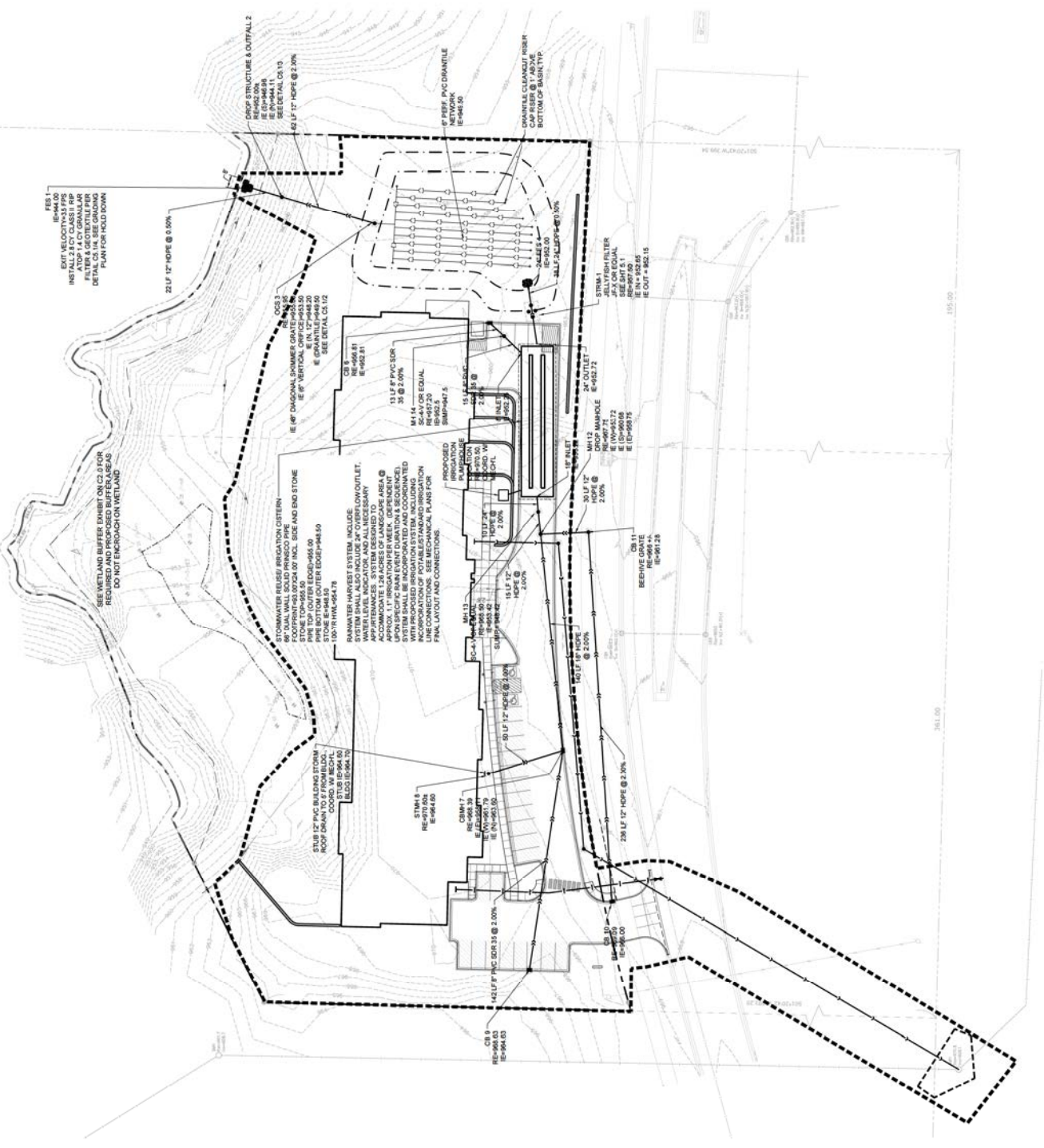
CITY OF CHANHASSEN UTILITY NOTES:

1. RESERVED FOR CITY SPECIFIC UTILITY NOTES.

UTILITY LEGEND:



Know what's below.
Call before you dig.



FEES:
E=44.00
B=18.00
E=10.00
ATOP 4 CY GRANULAR
FILL
DETAIL C5.14. SEE GRADING
PLAN FOR HOLD DOWN

SEE WETLAND BUFFERS EXHIBIT ON C2.0 FOR
REQUIRED AND PROPOSED BUFFER AREAS
DO NOT ENCROACH ON WETLAND

DROP STRUCTURE & OUTFALL 2
E=44.00
E=44.00
SEE DETAIL C5.10

22.5" 12" HDPE @ 2.00%

003.3
E=44.00
E=44.00
E=44.00
SEE DETAIL C5.12

11.5" 12" PVC SDR
36 @ 2.00%

M=14 105 EQUAL
E=44.00
E=44.00
E=44.00
SEE DETAIL C5.12

30" 12" HDPE @ 2.00%

30" 12" HDPE @ 2.00%

30" 12" HDPE @ 2.00%

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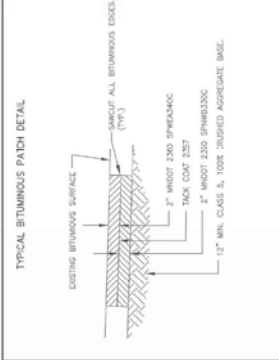
30" 12" HDPE @ 2.00%

30" 12" HDPE @ 2.00%

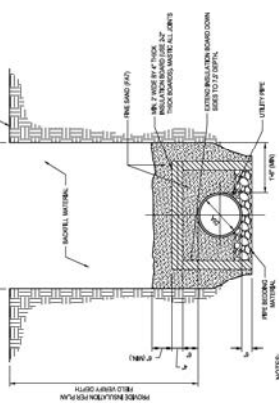
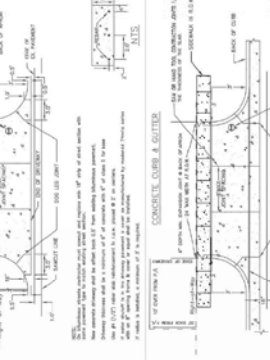
30" 12" HDPE @ 2.00%

30" 12" HDPE @ 2.00%

30" 12" HDPE @ 2.00%



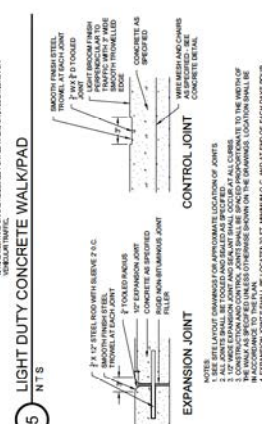
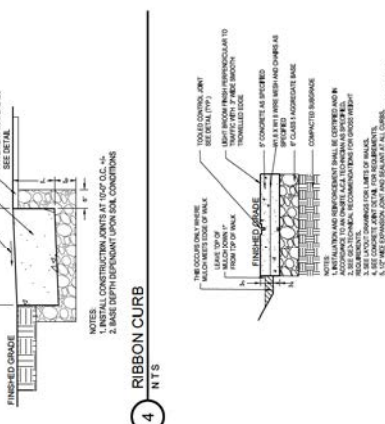
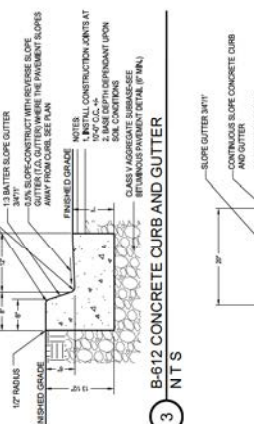
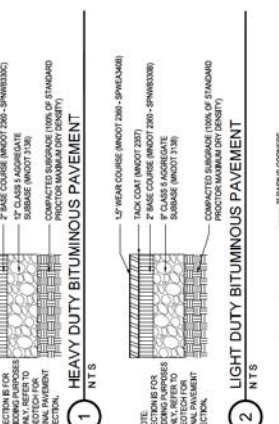
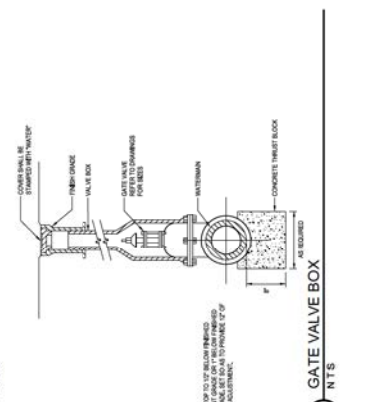
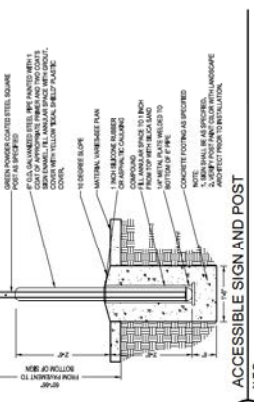
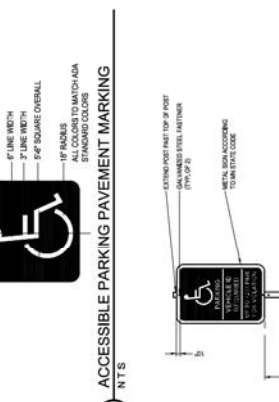
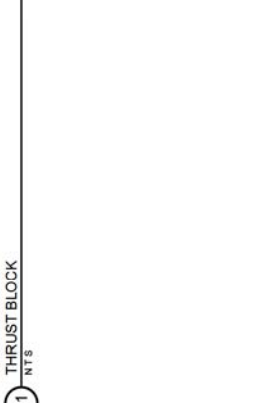
- PATCHING NOTES:**
1. SAW OUT ALL EDGES, REMOVE BITUMINOUS PATCH AREA, AND DITCH OUT PATCH AREA.
 2. MECHANICAL COMPLETION OF SMALL WORK REQUIRED PRIOR TO PATCHING.
 3. APPLY PATCH TO ALL JOBS. CONTRACTOR MAY USE WEAR COURSE.
 4. USE PASTE COMPACTOR TO CONSOLIDATE BASE COURSE PATCH.
 5. ALLOW BASE COURSE TO FULLY COOL BEFORE PLACING WEAR COURSE.
 6. RE-APPLY TACK TO ALL EDGES OF PATCHED AND PATCHED BASE AREA.
 7. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING SURFACES ADJACENT TO PATCHING AREA.
 8. CONTRACTOR TO STRENGTHEN ALL PATCHES PRIOR TO APPROVAL.
 9. PATCHED AREAS SHALL MATCH ROADWAYS EXISTING THICKNESS FOR SECTION.



- UTILITY PIPE INSULATION DETAIL**
1. INSULATION BOARD TO BE CLOSED CELL EXPANDED POLYSTYRENE FOAM INSULATION (ASTM C578).
 2. INSULATION BOARD TO BE CLOSED CELL EXPANDED POLYSTYRENE FOAM INSULATION (ASTM C578).
 3. OVERLAP ALL INSULATION BOARD JOINTS.



| NOMINAL SIZE (INCHES) | 16" RADIUS | 24" RADIUS | 36" RADIUS | 48" RADIUS | 60" RADIUS | 72" RADIUS | 84" RADIUS | 96" RADIUS | 108" RADIUS | 120" RADIUS |
|-----------------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|
| 4 | 1.0 | 1.4 | 1.9 | 2.4 | 2.9 | 3.4 | 3.9 | 4.4 | 4.9 | 5.4 |
| 6 | 1.5 | 2.1 | 2.8 | 3.5 | 4.2 | 4.9 | 5.6 | 6.3 | 7.0 | 7.7 |
| 8 | 2.0 | 2.8 | 3.7 | 4.6 | 5.5 | 6.4 | 7.3 | 8.2 | 9.1 | 10.0 |
| 10 | 2.5 | 3.5 | 4.6 | 5.7 | 6.8 | 7.9 | 9.0 | 10.1 | 11.2 | 12.3 |
| 12 | 3.0 | 4.2 | 5.5 | 6.8 | 8.1 | 9.4 | 10.7 | 12.0 | 13.3 | 14.6 |
| 14 | 3.5 | 4.9 | 6.4 | 7.9 | 9.4 | 10.9 | 12.4 | 13.9 | 15.4 | 16.9 |
| 16 | 4.0 | 5.6 | 7.3 | 9.0 | 10.7 | 12.4 | 14.1 | 15.8 | 17.5 | 19.2 |
| 18 | 4.5 | 6.3 | 8.2 | 10.1 | 12.0 | 13.9 | 15.8 | 17.7 | 19.6 | 21.5 |
| 20 | 5.0 | 7.0 | 9.1 | 11.2 | 13.3 | 15.4 | 17.5 | 19.6 | 21.7 | 23.8 |
| 24 | 6.0 | 8.4 | 11.0 | 13.6 | 16.2 | 18.8 | 21.4 | 24.0 | 26.6 | 29.2 |
| 30 | 7.5 | 10.5 | 13.7 | 17.0 | 20.3 | 23.6 | 26.9 | 30.2 | 33.5 | 36.8 |
| 36 | 9.0 | 12.6 | 16.3 | 20.0 | 24.0 | 28.0 | 32.0 | 36.0 | 40.0 | 44.0 |
| 42 | 10.5 | 14.7 | 19.6 | 24.5 | 29.5 | 34.5 | 39.5 | 44.5 | 49.5 | 54.5 |
| 48 | 12.0 | 16.8 | 22.1 | 27.6 | 33.1 | 38.6 | 44.1 | 49.6 | 55.1 | 60.6 |
| 54 | 13.5 | 18.9 | 24.7 | 30.2 | 36.2 | 42.3 | 48.4 | 54.5 | 60.6 | 66.7 |
| 60 | 15.0 | 21.0 | 27.3 | 33.4 | 39.5 | 45.6 | 51.7 | 57.8 | 63.9 | 70.0 |
| 66 | 16.5 | 23.1 | 29.4 | 35.5 | 41.6 | 47.7 | 53.8 | 59.9 | 66.0 | 72.1 |
| 72 | 18.0 | 25.2 | 31.5 | 37.6 | 43.7 | 49.8 | 55.9 | 62.0 | 68.1 | 74.2 |
| 78 | 19.5 | 27.3 | 33.6 | 39.7 | 45.8 | 51.9 | 58.0 | 64.1 | 70.2 | 76.3 |
| 84 | 21.0 | 29.4 | 35.7 | 41.8 | 47.9 | 54.0 | 60.1 | 66.2 | 72.3 | 78.4 |
| 90 | 22.5 | 31.5 | 37.8 | 43.9 | 50.0 | 56.1 | 62.2 | 68.3 | 74.4 | 80.5 |
| 96 | 24.0 | 33.6 | 39.9 | 46.0 | 52.1 | 58.2 | 64.3 | 70.4 | 76.5 | 82.6 |
| 102 | 25.5 | 35.7 | 42.0 | 48.1 | 54.2 | 60.3 | 66.4 | 72.5 | 78.6 | 84.7 |
| 108 | 27.0 | 37.8 | 44.1 | 50.2 | 56.3 | 62.4 | 68.5 | 74.6 | 80.7 | 86.8 |
| 114 | 28.5 | 39.9 | 46.2 | 52.3 | 58.4 | 64.5 | 70.6 | 76.7 | 82.8 | 88.9 |
| 120 | 30.0 | 42.0 | 48.3 | 54.4 | 60.5 | 66.6 | 72.7 | 78.8 | 84.9 | 91.0 |





MEMORY CARE
reimagined

PRELIMINARY:
 NOT FOR
 CONSTRUCTION

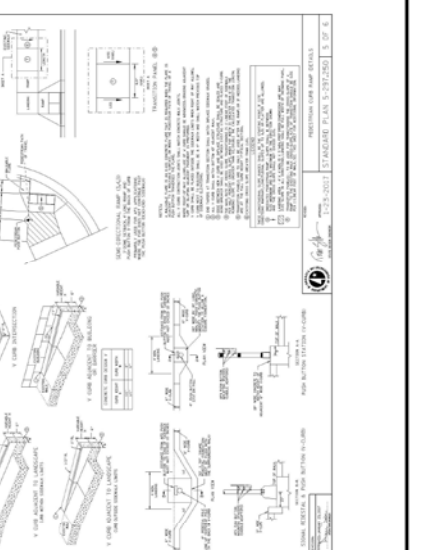
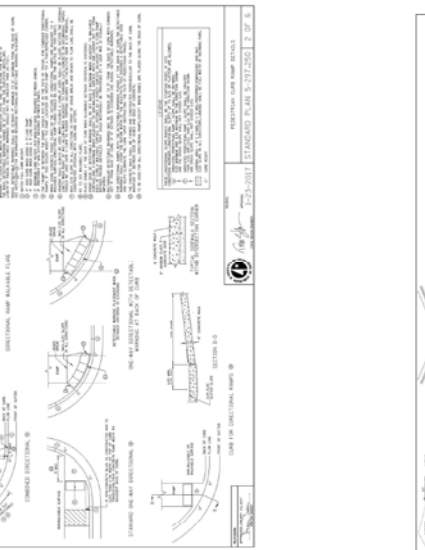
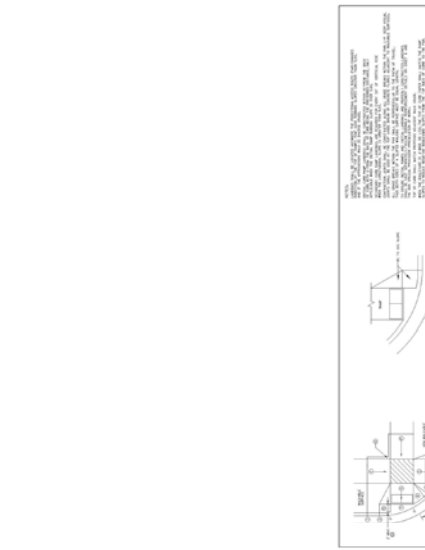
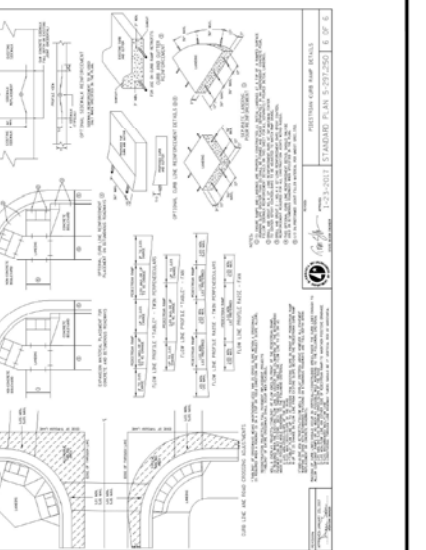
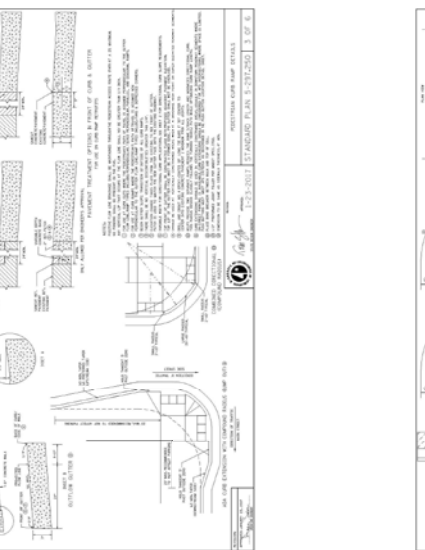
MOMENTS OF CHANHASSEN
 1660 ARBORETUM BLVD, CHANHASSEN, MN 55317
TMSC OF CHANHASSEN LLC
 1629 KENYON AVE, LAKEVILLE, MN 55004

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DATE: 07/15/2017
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 PROJECT NUMBER: 1722

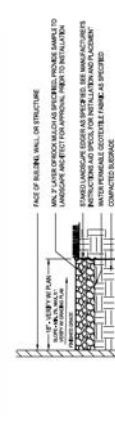
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CIVIL DETAILS
C5.2
CONCRETE REINFORCING

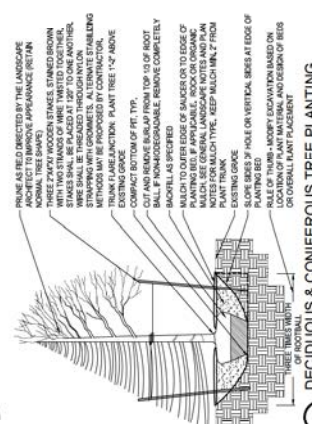


IRRIGATION NOTES:

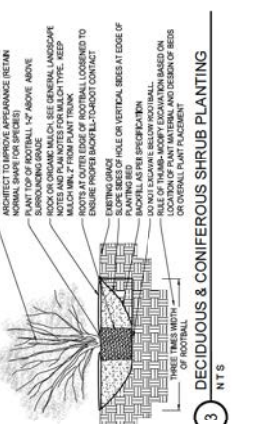
1. IRRIGATION SHALL BE AS REQUIRED. THE CONTRACTOR SHALL SUBMIT IRRIGATION SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. SEE MECHANICAL AND ELECTRICAL PLANS AND SPECIFICATIONS FOR IRRIGATION WATER, METER, AND PUMP.
3. ALL IRRIGATION SHALL BE INSTALLED TO UNDERGROUND LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF UNDERGROUND LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF UNDERGROUND LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND INSTALLATION OF UNDERGROUND LOCATIONS.
4. CONTRACTOR SHALL COORDINATE WITH LOCAL UTILITY COMPANY FOR THE PROPOSED ELECTRICAL SERVICE AND LANDSCAPE ARCHITECT OR EQUIVALENT AT THE JOB SITE.
5. ALL IRRIGATION MAINS SHALL BE 1/2" AT MINIMUM. VERIFY WITH MECHANICAL PLANS CHANGE.
6. ALL IRRIGATION LINES SHALL BE 1/2" BELOW FINISHED GRADE.
7. ALL EXPOSED PVC RISERS, IF ANY, SHALL BE GRAY IN COLOR.
8. CONTRACTOR SHALL LAY ALL SLEEVES AND CONDUIT AT 24" BELOW THE FINISHED GRADE OF THE TOP OF FINISHMENT. EXTEND SLEEVES TO 24" BELOW FINISHMENT.
9. CONTRACTOR SHALL MARK THE LOCATION OF ALL SLEEVES AND CONDUIT WITH THE SLEEVING MATERIAL, TIELED TO 24" ABOVE FINISHED GRADE AND CAPPED.
10. CONTRACTOR SHALL MARK THE LOCATION OF ALL SLEEVES AND CONDUIT WITH THE SLEEVING MATERIAL, TIELED TO 24" ABOVE FINISHED GRADE AND CAPPED.
11. CONTRACTOR SHALL MARK THE LOCATION OF ALL SLEEVES AND CONDUIT WITH THE SLEEVING MATERIAL, TIELED TO 24" ABOVE FINISHED GRADE AND CAPPED.
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20. CONTRACTOR SHALL MARK THE LOCATION OF ALL SLEEVES AND CONDUIT WITH THE SLEEVING MATERIAL, TIELED TO 24" ABOVE FINISHED GRADE AND CAPPED.



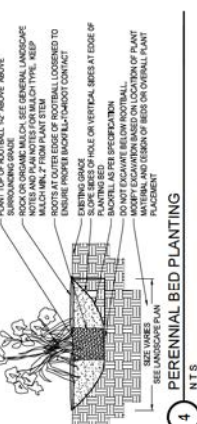
1 AGGREGATE MAINTENANCE STRIP
 N.T.S.



2 DECIDUOUS & CONIFEROUS TREE PLANTING
 N.T.S.

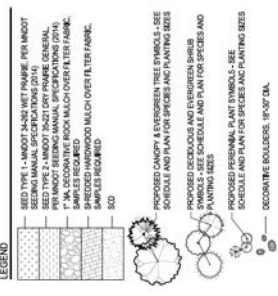


3 DECIDUOUS & CONIFEROUS SHRUB PLANTING
 N.T.S.



4 PERENNIAL BED PLANTING
 N.T.S.

LEGEND



SEED TYPE 1 - AMOBT 24-26 NET FIBRE PER MOBT SEEDING MANUAL SPECIFICATIONS 2014
 2 - AMOBT 24-26 NET FIBRE PER MOBT SEEDING MANUAL SPECIFICATIONS 2014
 3 - AMOBT 24-26 NET FIBRE PER MOBT SEEDING MANUAL SPECIFICATIONS 2014
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 20 - AMOBT 24-26 NET FIBRE PER MOBT SEEDING MANUAL SPECIFICATIONS 2014

PROPOSED CURBS, SCHEDULES, TREE PANELS, SEE SCHEDULE AND PLAN FOR SPECIES AND PLANTING SIZES
PROPOSED SPECIES AND PLANTING SIZES
 SHALL USE SCHEDULE AND PLAN FOR SPECIES AND PLANTING SIZES
PROPOSED PERSONAL PLANT SYMBOLS - SEE SCHEDULE AND PLAN FOR SPECIES AND PLANTING SIZES
 DECORATIVE BOULDERS, 18" X 24"

**Know what's below.
 Call before you dig.**



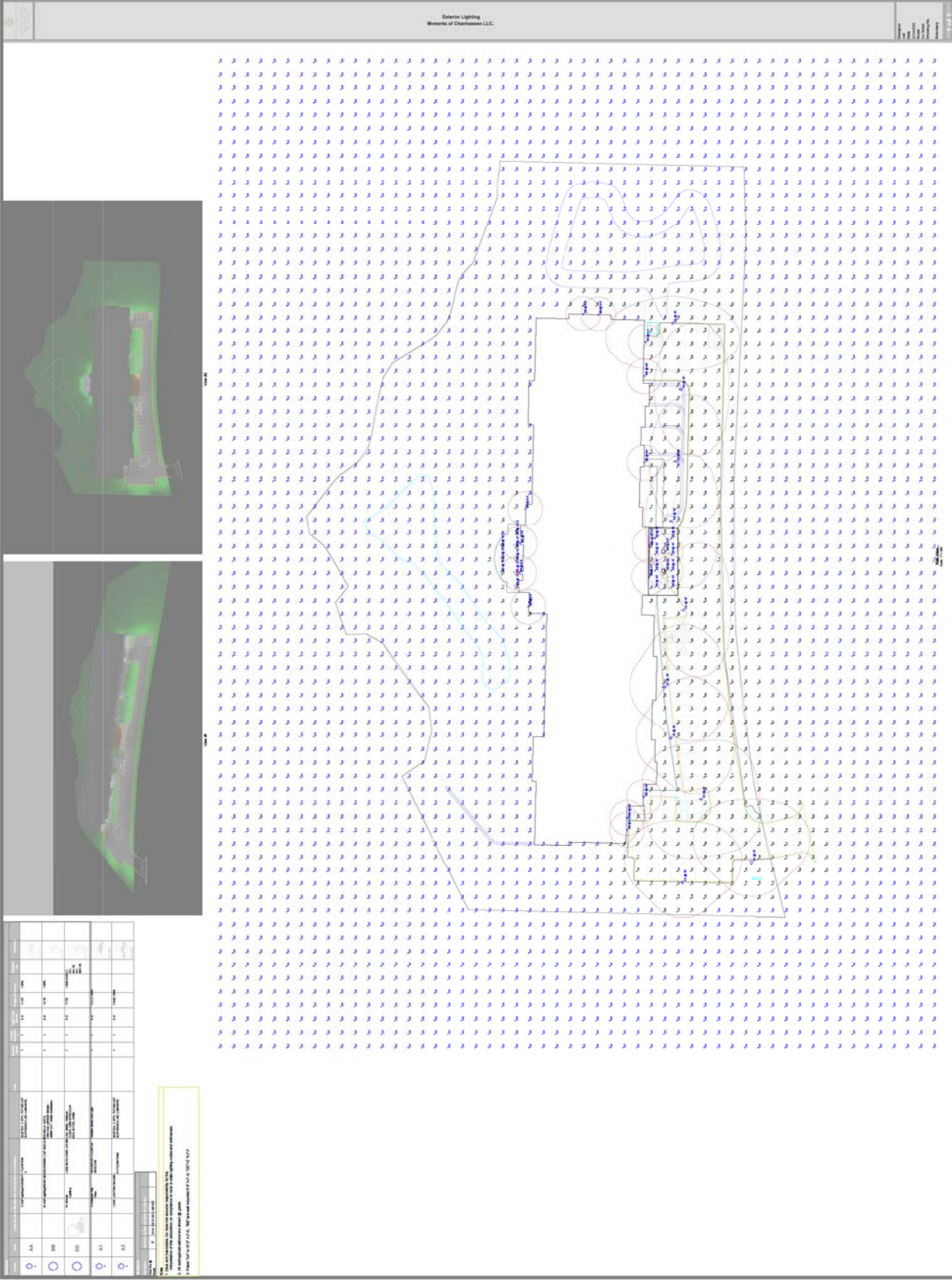
1" = 20'
 2027

REVISION SUMMARY

| DATE | DESCRIPTION |
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PHOTOMETRIC PLAN

LT1.0



| NO. | SYMBOL | DESCRIPTION | HEIGHT | BEAM ANGLE | SPACING | WATTAGE | WAVELENGTH |
|-----|--------|-------------------|--------|------------|---------|---------|------------|
| 01 | ○ | TYPE 1 - [Symbol] | 10' | 30° | 10' | 100W | 4000K |
| 02 | ○ | TYPE 2 - [Symbol] | 10' | 30° | 10' | 100W | 4000K |
| 03 | ○ | TYPE 3 - [Symbol] | 10' | 30° | 10' | 100W | 4000K |
| 04 | ○ | TYPE 4 - [Symbol] | 10' | 30° | 10' | 100W | 4000K |

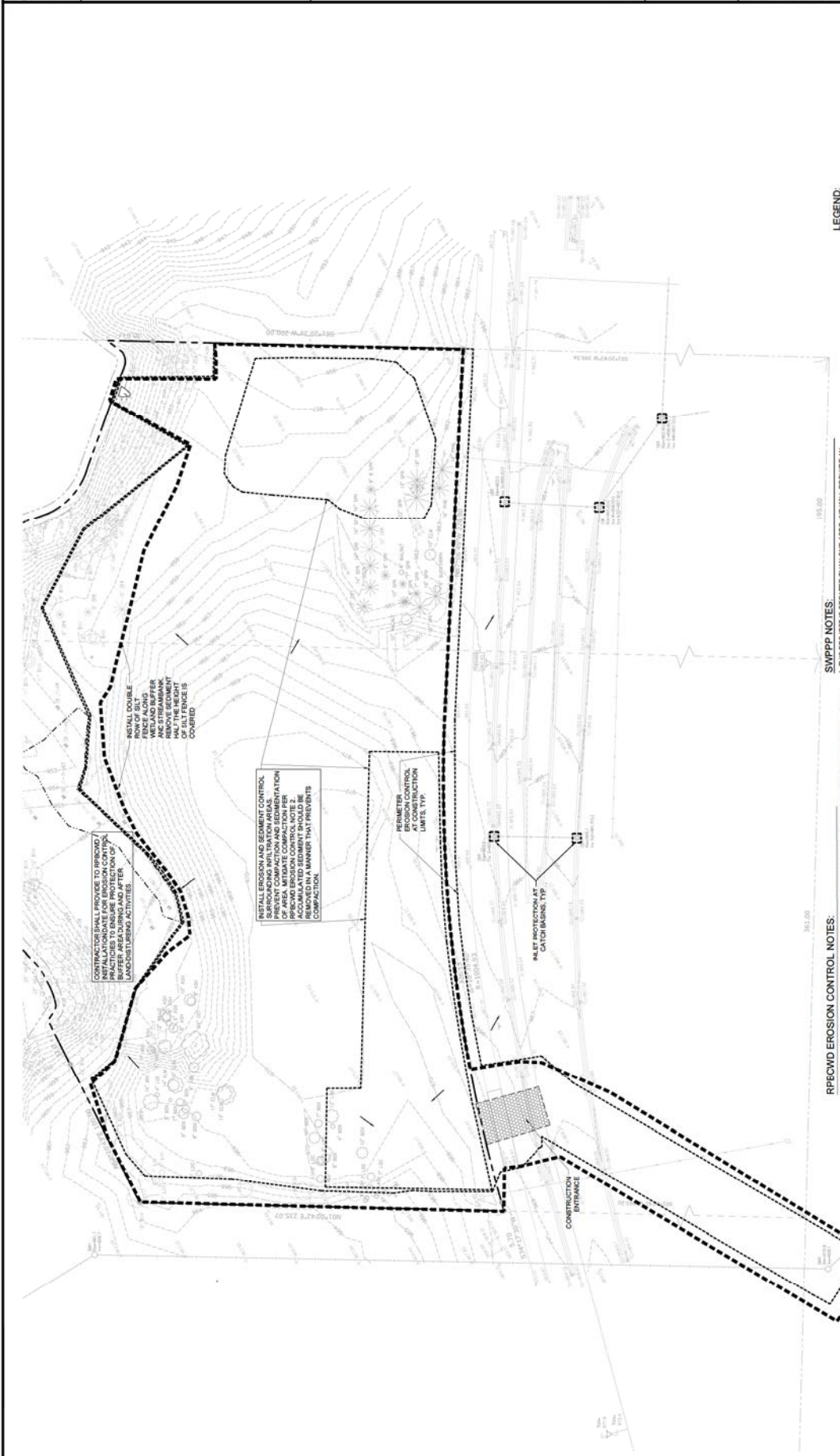
1. All dimensions are in feet and inches. All dimensions are rounded up to the nearest inch. All dimensions are subject to change without notice.

2. All lighting fixtures are assumed to be standard fixtures of the same type and make as shown on this plan.

3. All lighting fixtures are assumed to be of the same height and beam angle as shown on this plan.

4. All lighting fixtures are assumed to be of the same wattage and wavelength as shown on this plan.

DATE
BY
CHECKED
APPROVED



CONTROLS SHALL PROVIDE TO FORDRY PRACTICES TO ENSURE PROTECTION OF WETLANDS AND STREAMS AFTER LAND-RESTORATION ACTIVITIES.

INSTALL EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT SOIL COMPACTION AND SEDIMENTATION FROM OCCURRING. BEST PRACTICES FOR PREVENTING ACCUMULATED SEDIMENT SHOULD BE REMOVED IN A MANNER THAT PREVENTS COMPACTION.

INSTALL EROSION CONTROL MEASURES AT CONSTRUCTION UNITS, TYP.

LEGEND:

- EX. 1' CONTOUR ELEVATION INTERVAL
- 1/2 CONTOUR ELEVATION INTERVAL
- DRAINAGE ARROW
- SET FENCE (RODENT - GRAVING LIMIT)
- INLET PROTECTION
- STABILIZED CONSTRUCTION ENTRANCE
- EROSION CONTROL BLANKET

Know what's below. Call before you dig.

SWPPP NOTES:

- STANDARDS AND MARKING OF PROPOSED INFILTRATION FACILITIES TO PREVENT SOIL COMPACTION BY HEAVY EQUIPMENT. PLACE DURING CONSTRUCTION ACTIVITIES. BEST PRACTICES MUST BE DEPLOYED TO PREVENT SEDIMENT AND OTHER MATERIALS FROM ENTERING THE INFILTRATION FACILITY UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN FULLY CONSTRUCTED AND STABILIZED. ANY ACCUMULATED SEDIMENT IN AN INFILTRATION FACILITY MUST BE REMOVED IN A MANNER THAT PREVENTS COMPACTION OF THE FACILITY LOSSESS TO A MINIMUM DEPTH OF 18 INCHES PRIOR TO INSTALLATION OR PLANTING.
- SOIL SURFACES COMPACTED DURING CONSTRUCTION AND REMAINING PERVIOUS UPON COMPLETION OF CONSTRUCTION MUST BE DECOMPACTED TO ACHIEVE:
 - A. A BULK DENSITY OF LESS THAN 14.0 GRAMS PER CUBIC CENTIMETER OR 67 POUNDS PER CUBIC FOOT IN THE UPPER 12 INCHES OF SOIL.
 - B. A BULK DENSITY OF LESS THAN 1.40 G/CM³ OR 86.0 POUNDS PER CUBIC FOOT IN THE UPPER 12 INCHES OF SOIL.
- EXISTING VEGETATION, TREE BARKS, AND OTHER EXISTING VEGETATION MUST BE PROTECTED UNTIL FINAL REVEGETATION OR OTHER STABILIZATION OF THE SITE.
- ACTIVITIES MUST BE CONDUCTED SO AS TO MINIMIZE THE POTENTIAL TRANSFER OF AQUATIC INVASIVE SPECIES (E.G. ZEBRA MUSSELS, BURRHEADS, ETC.) TO THE MAXIMUM EXTENT POSSIBLE.
- NO ACTIVITY AFFECTING THE BANK OR BANKS OF A PROTECTED WATERWAY MAY BE CONDUCTED BETWEEN MARCH 15 AND JUNE 30 ON ALL OTHER PUBLIC WATER BODIES TO MINIMIZE IMPACTS ON FISH SPAWNING AND MIGRATION.
- BANKS MUST BE STABILIZED IMMEDIATELY AFTER COMPLETION OF PERMITTED WORK AND REVEGETATED AS SOON AS GROWING CONDITIONS ALLOW.

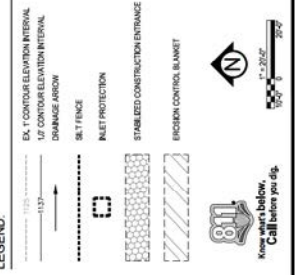
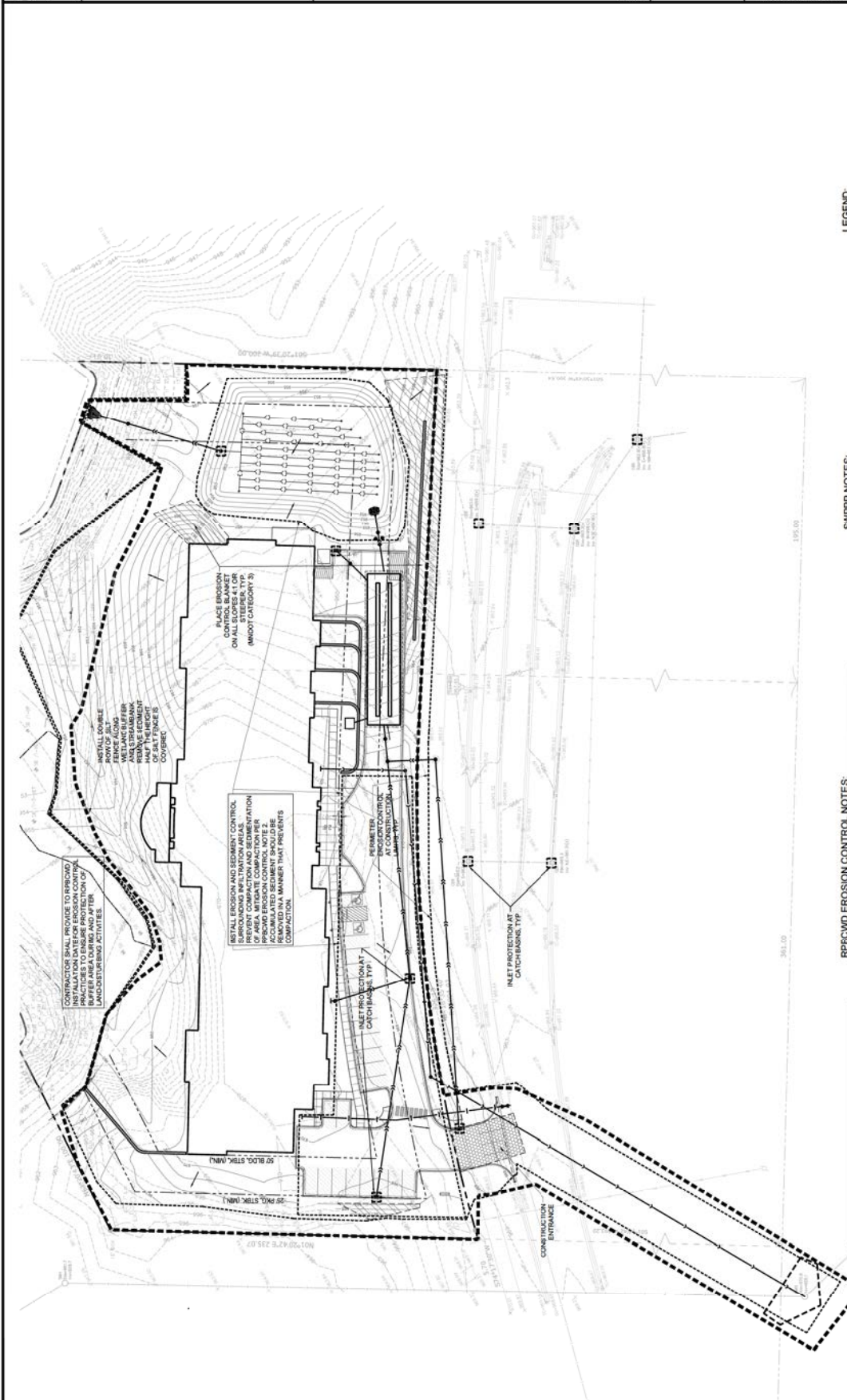
CITY OF CHANHASSEN EROSION CONTROL NOTES:

- RESERVED FOR CITY SPECIFIC EROSION CONTROL NOTES.

RPICWD EROSION CONTROL NOTES:

- STANDARDS AND MARKING OF PROPOSED INFILTRATION FACILITIES TO PREVENT SOIL COMPACTION BY HEAVY EQUIPMENT. PLACE DURING CONSTRUCTION ACTIVITIES. BEST PRACTICES MUST BE DEPLOYED TO PREVENT SEDIMENT AND OTHER MATERIALS FROM ENTERING THE INFILTRATION FACILITY UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN FULLY CONSTRUCTED AND STABILIZED. ANY ACCUMULATED SEDIMENT IN AN INFILTRATION FACILITY MUST BE REMOVED IN A MANNER THAT PREVENTS COMPACTION OF THE FACILITY LOSSESS TO A MINIMUM DEPTH OF 18 INCHES PRIOR TO INSTALLATION OR PLANTING.
- SOIL SURFACES COMPACTED DURING CONSTRUCTION AND REMAINING PERVIOUS UPON COMPLETION OF CONSTRUCTION MUST BE DECOMPACTED TO ACHIEVE:
 - A. A BULK DENSITY OF LESS THAN 14.0 GRAMS PER CUBIC CENTIMETER OR 67 POUNDS PER CUBIC FOOT IN THE UPPER 12 INCHES OF SOIL.
 - B. A BULK DENSITY OF LESS THAN 1.40 G/CM³ OR 86.0 POUNDS PER CUBIC FOOT IN THE UPPER 12 INCHES OF SOIL.
- EXISTING VEGETATION, TREE BARKS, AND OTHER EXISTING VEGETATION MUST BE PROTECTED UNTIL FINAL REVEGETATION OR OTHER STABILIZATION OF THE SITE.
- ACTIVITIES MUST BE CONDUCTED SO AS TO MINIMIZE THE POTENTIAL TRANSFER OF AQUATIC INVASIVE SPECIES (E.G. ZEBRA MUSSELS, BURRHEADS, ETC.) TO THE MAXIMUM EXTENT POSSIBLE.
- NO ACTIVITY AFFECTING THE BANK OR BANKS OF A PROTECTED WATERWAY MAY BE CONDUCTED BETWEEN MARCH 15 AND JUNE 30 ON ALL OTHER PUBLIC WATER BODIES TO MINIMIZE IMPACTS ON FISH SPAWNING AND MIGRATION.
- BANKS MUST BE STABILIZED IMMEDIATELY AFTER COMPLETION OF PERMITTED WORK AND REVEGETATED AS SOON AS GROWING CONDITIONS ALLOW.

ALL EXISTING EROSION AND SEDIMENT CONTROL MEASURES AND REQUIREMENTS CONTAINED IN THIS SWPPP ARE THE MINIMUM REQUIRED DURING THE COURSE OF CONSTRUCTION.

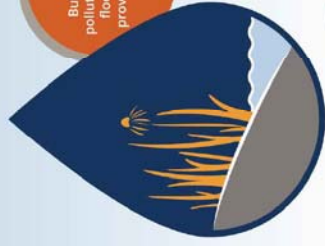


- SWPPP NOTES:**
1. SWPPP SHALL BE IMPLEMENTED AT ALL TIMES. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE PROJECT. SWPPP SHALL BE UPDATES AS NEEDED.
 2. SEE SHEETS SWP0-0 - SWP15 FOR ALL EROSION CONTROL NOTES, DESCRIPTIONS, AND PRACTICES.
 3. SEE GRADING PLAN FOR ADDITIONAL GRADING AND EROSION CONTROL NOTES.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SWPPP OBSERVATION, INSPECTION, AND COMPLIANCE WITH NPDES PERMIT.
- NPDES EROSION CONTROL NOTES:**
1. STORM AND WIND PROTECTED INFILTRATION FACILITIES TO PREVENT SOIL COMPACTION BY HEAVY EQUIPMENT STANDING ON MATERIALS AND TRAFFIC MUST BE PERFORMED BY THE CONTRACTOR. IF INFILTRATION FACILITIES ARE IN PLACE FROM ENTERING THE PRACTICES, INFILTRATION FACILITIES MUST NOT BE EXCAVATED TO WITHIN 1 FEET OF FINAL GRADE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN FULLY CONSTRUCTED AND STABILIZED. ANY ACCUMULATED MATERIAL AT THE BOTTOM OF THE PRACTICES SHALL BE REMOVED AND REPLACED WITH FINE SAND. THE SOLE BELOW AN INFILTRATION PRACTICE MUST BE LOOSESED TO A MINIMUM DEPTH OF 18 INCHES PRIOR TO INSTALLATION OR PLANTING.
 2. SOIL SURFACES COMPACTED DURING CONSTRUCTION AND REMAINING PERSISTENT UPON COMPLETION OF CONSTRUCTION SHALL BE DESTROYED. TO AVOID THIS, SOIL SURFACES SHALL BE PROTECTED BY ONE OF THE FOLLOWING METHODS:
A. SOIL COMPACTION TESTING (PRESSURE OF LESS THAN 1,400 KILOPASCALS OR 200 POUNDS PER SQUARE INCH IN THE UPPER 12 INCHES OF SOIL OR
B. SOIL COMPACTION TESTING (PRESSURE OF LESS THAN 1.4 GRAMS PER CUBIC CENTIMETER OR 42 POUNDS PER CUBIC FOOT IN THE UPPER 12 INCHES OF SOIL).
 3. IN ADDITION UTILITIES, TREE ROOTS AND OTHER EXISTING VEGETATION MUST BE PROTECTED UNTIL FINAL REVEGETATION OR OTHER STABILIZATION OF THE SITE.
 4. ACTIVITIES MUST BE CONDUCTED SO AS TO MINIMIZE THE POTENTIAL TRANSFER OF AQUATIC INVASIVE SPECIES (E.G. ZEBRA MUSSELS, EURASIAN MILFOIL, ETC.) TO THE MAXIMUM EXTENT POSSIBLE.
 5. ANY VEGETATION AFFECTING THE BANK OR BANKS OF A PROTECTED WATERWAY MAY BE COLOCATED BETWEEN MARCH 15 AND JUNE 15 ON WATER COURSES, OR BETWEEN APRIL 1 AND JUNE 30 ON ALL OTHER PUBLIC WATER BODIES. TO MINIMIZE IMPACTS ON FISH SPawning AND MIGRATION, THE CONTRACTOR SHALL REMOVE VEGETATION IMMEDIATELY AFTER COMPLETION OF PERMITTED WORK AND BE REVEGETATED AS SOON AS GROWING CONDITIONS ALLOW.

ALL SPECIFIED EROSION AND SEDIMENT CONTROL PRACTICES AND MEASURES CONTAINED IN THIS SWPPP ARE THE MINIMUM REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IDENTIFYING ADDITIONAL MEASURES THAT MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION.

CLEAN WATER STARTS HERE

Buffers filter pollutants, reduce flooding, and provide habitat.

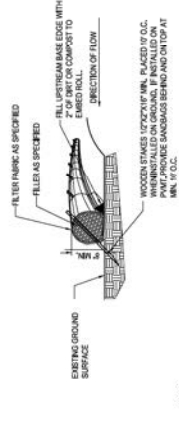


RILEY PURGATORY BLUFF CREEK WATERSHED DISTRICT
rpbawd.org

Help protect water quality:
NO MOWING BEYOND THIS LINE

1 WETLAND BUFFER SIGNAGE

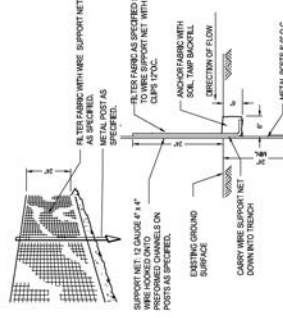
NTS



- NOTE:
1. COMPOST FILTER LOGS (BIO-ROLLS) SHALL BE IN FIELD EROSION CONTROL LOGS OR APPROVED EQUAL.
 2. COMPOST FILTER LOGS (BIO-ROLLS) SHALL BE IN FIELD EROSION CONTROL LOGS OR APPROVED EQUAL.
 3. PARTIALLY DECOMPOSED WOOD CHIPS, PER APPROX. SPEC. 2007, SHALL BE USED TO PROVIDE STABILITY TO FILTER LOGS.
 4. IF WOOD CHIPS ARE USED, THEY SHALL BE PLACED IN A LAYER WITH A MINIMUM THICKNESS OF 3\"/>

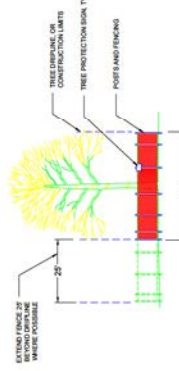
2 SEDIMENT BIO-ROLL / COMPOST FILTER LOG

NTS



3 SEDIMENT FENCE

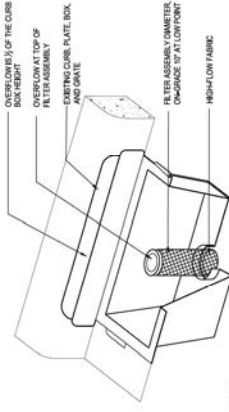
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4 TREE PROTECTION

NTS

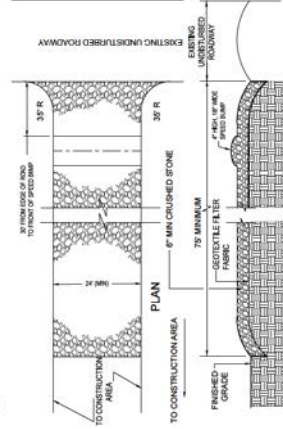
FURNISH AND INSTALL TEMPORARY FENCE AT THE TREE DIRT LINE OR CONSTRUCTION LIMITS AS SHOWN ON PLAN. PRIOR TO ANY CONSTRUCTION, WHERE TREE PROTECTION IS REQUIRED, SHALL BE INSTALLED PER TREE PROTECTION POSTS ONE PER INDIVIDUAL TREE (ACROSS CONSTRUCTION ACTIVITY), OR ONE EVERY 100' ALONG A GROVE OR MULTI-TREE PROTECTION AREA.



- NOTES:
1. REPLACE INLET GUTTER UPON COMPLETE INSTALLATION OF INLET PROTECTION FABRIC.
 2. ALL FABRICS SHALL BE INSTALLED WITH FABRIC OVERLAP FROM THE SURFACE OF THE SYSTEM AFTER EACH DOWN EVENT AND AT THE COMPLETION OF THE CONTRACT.
 3. REFERENCE APPLE VALLEY STANDARD PLATE EROD.

5 CURB INLET FILTER

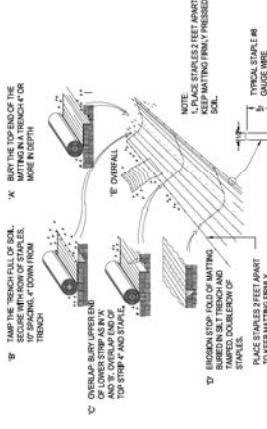
NTS



- NOTES:
1. FABRIC APPROXIMATE TENSION BETWEEN STABILIZED CONSTRUCTION ENTRANCE AND UNSTABILIZED ROADWAY.
 2. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING ON FLOWING OF SERMENT STONE TO THE LENGTH OF THE ENTRANCE.
 3. ALL STABILIZED CONSTRUCTION SHALL BE MAINTAINED WITH A MINIMUM OF 6\"/>

6 STABILIZED CONSTRUCTION ACCESS

NTS



7 EROSION BLANKET

NTS

ATTACHMENT A: SITE SPECIFIC SWPPP DOCUMENT

PROJECT NAME: MOMENTS OF CHANHASSEN
ADDRESS: 1560 ARBORETUM BLVD, CHANHASSEN, MN 55317
STATE: MN
OWNER: TMSOC OF CHANHASSEN LLC
LATITUDE/longitude OF APPROXIMATE CENTER OF PROJECT: 44.884328 N, 93.28114 W
LATITUDE/longitude OF APPROXIMATE PROPERTY CORNER: 44.884328 N, 93.28114 W
ALL OTHERS WHERE CONSTRUCTION WILL OCCUR: CHANHASSEN
DATE OF SWPPP: 09/25/2018
PROJECT SIZE (NUMBER OF ACRES TO BE DISTURBED): 3
PROJECT TYPE (SINGLE ONE-RESIDENTIAL, RESIDENTIAL & NON-RESIDENTIAL, ROAD CONSTRUCTION, COMMERCIAL, INDUSTRIAL, PUBLIC WORKS, ETC.): RESIDENTIAL & NON-RESIDENTIAL (OTHER DESCRIBE): 200X
EXISTING AREA OF IMPROVED SURFACE (0.0 TO 1.0): 0.3
TOTAL NEW AREA OF IMPROVED SURFACE: 1.3

REGULATING WATERS

| WATER BODY ID | NAME OF WATER BODY | WATER BODY TYPE | SPECIAL WATER? (Y/N) | IMPROVED WATER? (Y/N) |
|---------------|--------------------|-----------------|----------------------|-----------------------|
| 15011350 | SUBAN | LAKE | N | N |
| | RELAY | CREEK | N | N |

DATES OF CONSTRUCTION: 09/25/2018 TO 10/31/2018
CONSTRUCTION START DATE: 09/25/2018
CONSTRUCTION END DATE: 10/31/2018
GENERAL CONSTRUCTION PROJECT INFORMATION
DESCRIBE SOIL TYPE FOUND AT THE PROJECT: CLAYEY SANDY SOILS
SITE LOCATION MAP: ATTACH MAPS US GEO LOGIC SHEET 73 A MINUTE QUADRANGLE, ANTI-COASTAL WETLAND INVENTORY MAPS REQUIRING EQUIVALENT SHOWING THE LOCATION AND TYPE OF ALL RECEIVING WATERS, INCLUDING WETLANDS, DRAINAGE DITCHES, STORMWATER PONDS, OR BASINS, ETC THAT WILL RECEIVE RUNOFF FROM THE PROJECT (USE ARROWS SHOWING THE DIRECTION OF FLOW AND DISTANCE TO THE WATER BODY).



GENERAL SITE LOCATION (BY CITY, TWP, RANGE, AND SECTION)
USDA NAD 83 COORDINATES: 44.884328 N, 93.28114 W
PROPERTY CORNER COORDINATES: 44.884328 N, 93.28114 W
NEAREST ROAD: 1560 ARBORETUM BLVD
NEAREST TOWN: CHANHASSEN, MN
NEAREST COUNTY: WABASH, MN

1. THE PROJECT LOCATION IS IN AN AREA THAT WILL RECEIVE STORMWATER RUNOFF FROM THE SITE IDENTIFIABLE ON MAPS SUCH AS USGS 7.5 MINUTE QUADRANGLE MAPS. THE PROPERTY CORNER COORDINATES ARE 44.884328 N, 93.28114 W. THE PROJECT SITE IS LOCATED WITHIN AN UNDEVELOPED WETLAND DUE TO ONE OF THE FOLLOWING REASONS:
 - WETLANDS ARE AREAS THAT ARE USED OR CAPABLE OF BEING USED FOR WETLAND PURPOSES.
 - WETLANDS ARE AREAS THAT ARE USED OR CAPABLE OF BEING USED FOR WETLAND PURPOSES.
 2. DESCRIBE HOW THESE MEASURES WOULD BE ADDRESSED IN THE SWPPP (IF APPLICABLE).
 - PREVENTION
 - MITIGATION
 - RESTORATION
 - RECONSTRUCTION
 3. COMBINATION OF PRACTICES
- INCLUDE ALL CALCULATIONS AND DESIGN INFORMATION FOR THE METHOD SELECTED. SEE PART B OF THE PERMIT FOR SPECIFIC SWPPP ATTACHED WITH EACH METHOD.
CALCULATIONS ARE WITHIN THE SITE INFORMATION MANAGEMENT REPORT AND PART OF THE SWPPP AS ATTACHMENT D.
3. IF IT IS NOT FEASIBLE TO MEET THE TREATMENT REQUIREMENT FOR THE WATER QUALITY VOLUME, DESCRIBE WHY. THIS CAN INCLUDE PROHIBITING THE LACK OF RIGHT OF WAY PRECLUDES THE REQUIREMENT TO MEET THE TREATMENT REQUIREMENT. DESCRIBE WHAT OTHER TREATMENT, SUCH AS GRSSES SWALES, SMALLER PONDS, OR GRIT CHAMBERS, WILL BE IMPLEMENTED TO TREAT RUNOFF PRIOR TO DISCHARGE TO RECEIVING WATERS.
IT IS FEASIBLE TO MEET THE TREATMENT REQUIREMENT FOR THE WATER QUALITY VOLUME. CLAYEY SANDY SOILS FOUND IN THE SOIL BORINGS INHIBIT INFILTRATION BUT IMPROVE RAINFALL RECHARGE VOLUME ABSTRACTION.
4. FOR PROJECTS THAT DISCHARGE TO TROUT STREAMS, INCLUDING TRIBUTARIES TO TROUT STREAMS, IDENTIFY METHOD OF APPROPRIATE TEMPERATURE CONTROLS INTO THE PERMANENT STORMWATER MANAGEMENT SYSTEM.

EROSION PREVENTION PRACTICES (EPP)

1. DESCRIBE CONSTRUCTION TRACING, VEGETATIVE BUFFER TRIPLES, HORIZONTAL SLOPE GRADING, AND OTHER CONSTRUCTION PRACTICES TO MINIMIZE EROSION. CLIMATE AREAS NOT TO BE DISTURBED (E.G., WET FLATS).
2. DESCRIBE METHODS OF TEMPORARY STABILIZATION OF EXPOSED SOILS AND SOIL STABILIZATION PRACTICES, INCLUDING HYDRAULIC MULCH, HYDRAULIC MATS, GEOTEXTILES, GEOTILES, ETC. CHECK DAM, SEDIMENT TRAPS, REP-PAP, ETC.
3. DESCRIBE METHODS OF TEMPORARY VEGETATION ESTABLISHMENT, INCLUDING HYDRAULIC MULCH, HYDRAULIC MATS, GEOTEXTILES, GEOTILES, ETC. CHECK DAM, SEDIMENT TRAPS, REP-PAP, ETC.
4. DESCRIBE METHODS TO BE USED FOR STABILIZATION OF DITCH AND SWALE WETTED PERIPHERIES (NOTE THAT MULCH, HYDRAULIC SOIL TACKERS, HYDROSEDS, ETC. ARE NOT ACCEPTABLE SOIL STABILIZATION METHODS).
5. DESCRIBE METHODS TO BE USED FOR STABILIZATION OF FRESH WATER BODIES (E.G., WETLANDS, POND, OR LAKE) WITHIN A CHANHASSEN BUFFER AREA. FINAL STABILIZATION OF SWALES WILL BE PERFORMED BY THE CONTRACTOR.
6. DESCRIBE METHODS TO BE USED FOR EROSION PREVENTION AT TYPE OUTLETS (E.G., REP-PAP, GRAVEL PAD, GROUND, ETC.).
7. DESCRIBE METHODS TO BE USED FOR EROSION PREVENTION AT POINTS OF DISCHARGE (E.G., DRAINAGE POND, OR LAKE) WITHIN A CHANHASSEN BUFFER AREA. FINAL STABILIZATION OF SWALES WILL BE PERFORMED BY THE CONTRACTOR.
8. DESCRIBE METHODS TO BE USED FOR EROSION PREVENTION AT POINTS OF DISCHARGE TO RECEIVING WATERS (E.G., DRAINAGE POND, OR LAKE) WITHIN A CHANHASSEN BUFFER AREA. FINAL STABILIZATION OF SWALES WILL BE PERFORMED BY THE CONTRACTOR.
9. DESCRIBE METHODS TO BE USED FOR EROSION PREVENTION AT POINTS OF DISCHARGE TO RECEIVING WATERS (E.G., DRAINAGE POND, OR LAKE) WITHIN A CHANHASSEN BUFFER AREA. FINAL STABILIZATION OF SWALES WILL BE PERFORMED BY THE CONTRACTOR.

TEMPORARY CONTROL PRACTICES (TCP)

| CONTROL PRACTICE | DESCRIPTION | INSTALLATION DATE | REMOVAL DATE |
|--------------------|---|-------------------|--------------|
| STABILIZATION MATS | INSTALL MATS TO PREVENT EROSION ON EXPOSED SOILS. | 09/25/2018 | 10/31/2018 |
| HYDRAULIC MULCH | APPLY MULCH TO STABILIZE EXPOSED SOILS. | 09/25/2018 | 10/31/2018 |

ADDITIONAL BMP'S FOR SPECIAL WATERS AND DISCHARGES TO WETLANDS (PERFORM A PART C AND D)
1. DESCRIBE METHODS TO BE USED TO PREVENT EROSION AND SEDIMENTATION FROM OCCURRING IN WETLANDS AND RECEIVING WATERS. DESCRIBE WHAT OTHER TREATMENT SUCH AS GRSSES SWALES, SMALLER PONDS, OR GRIT CHAMBERS IS REQUIRED PRIOR TO DISCHARGE TO RECEIVING WATERS. DESCRIBE WHAT OTHER TREATMENT WILL BE REQUIRED.
2. DESCRIBE HOW THE PERMANENT STORMWATER MANAGEMENT SYSTEM WILL ENSURE THAT THE PERMITS AND POST CONSTRUCTION ACTIVITY WILL NOT VIOLATE THE PERMITS.
3. DESCRIBE HOW THE PERMANENT STORMWATER MANAGEMENT SYSTEM WILL ENSURE THAT THE PERMITS AND POST CONSTRUCTION ACTIVITY WILL NOT VIOLATE THE PERMITS.

1. DESCRIBE HOW THE PERMANENT STORMWATER MANAGEMENT SYSTEM WILL ENSURE THAT THE PERMITS AND POST CONSTRUCTION ACTIVITY WILL NOT VIOLATE THE PERMITS.
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3. DESCRIBE HOW THE PERMANENT STORMWATER MANAGEMENT SYSTEM WILL ENSURE THAT THE PERMITS AND POST CONSTRUCTION ACTIVITY WILL NOT VIOLATE THE PERMITS.



MOMENTS OF CHANHASSEN

1560 ARBORETUM BLVD, CHANHASSEN, MN 55317
TMSOC OF CHANHASSEN LLC
15250 KENYON AVE, LAKEVILLE, MN 55004

PROJECT NO. 15011350
DATE: 09/25/2018
DRAWN BY: [Signature]
CHECKED BY: [Signature]
APPROVED BY: [Signature]

REVISIONS

| NO. | DESCRIPTION | DATE |
|-----|-------------------|------------|
| 1 | ISSUED FOR PERMIT | 09/25/2018 |

ATTACHMENT C: MAINTENANCE PLAN FOR PERMANENT STORM WATER TREATMENT SYSTEM

ATTACHMENT B: SWPPP INSPECTION FORM

NOTE: THIS INSPECTION REPORT DOES NOT ADDRESS ALL ASPECTS OF THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STATE DISPOSAL SYSTEM INDUSTRY CONSTRUCTION STORMWATER PERMIT ISSUED ON AUGUST 1, 2013. THE COMPLETION OF THIS CHECKLIST DOES NOT GUARANTEE THAT ALL PERMIT REQUIREMENTS ARE IN COMPLIANCE. IT IS THE RESPONSIBILITY OF THE PERMITTEE(S) TO READ AND UNDERSTAND THE PERMIT REQUIREMENTS.

FACILITY INFORMATION
CITY: _____ STATE: _____ PERMIT NUMBER: _____ ZIP CODE: _____
FACILITY ADDRESS: _____

INSPECTION INFORMATION
INSPECTION DATE: _____ TIME: _____ AM / PM
INSPECTOR NAME: _____
PERMIT NUMBER: _____
DATE OF PERMIT: _____
RAINFALL AMOUNT (IF APPLICABLE): _____
WIND SPEED (IF APPLICABLE): _____
IF YES, FOLLOW APPENDIX A AND OTHER APPLICABLE PERMIT REQUIREMENTS

NOTE: IF N/A IS SELECTED AT ANY TIME, SPECIFY WITHIN THE COMMENT AREA FOR THAT SECTION.

EROSION CONTROL REQUIREMENT (PART 16B)

| | | | |
|--|--------------------------|--------------------------|--------------------------|
| 1. SOIL STABILIZATION WHERE NO CONSTRUCTION ACTIVITY FOR 14 DAYS (7 DAYS WHERE APPLICABLE) | Y | N | N/A |
| 2. PERMIT CONTROL: INSTALLED SWALE DOWN GRAD PER PERMITTER'S? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. 50 FOOT NATURAL BUFFER MAINTAINED AROUND ALL SURFACE WATERBODIES? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. ALL EROSION STABILIZED SOIL BACK FROM POINT OF DISCHARGE (WITHIN 24 HOURS) (NOT MELD)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. ARE ALL EROSION CONTROL MEASURES MAINTAINED AND OPERATIONAL? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. ARE ALL EROSION CONTROL MEASURES MAINTAINED AND OPERATIONAL? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. DO THE OUTFLETS HAVE ENERGY DISSIPATION? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

SEDIMENT CONTROL REQUIREMENT (PART 16C)

| | | | |
|---|--------------------------|--------------------------|--------------------------|
| 1. PERMIT CONTROL: INSTALLED SWALE DOWN GRAD PER PERMITTER'S? | Y | N | N/A |
| 2. 50 FOOT NATURAL BUFFER MAINTAINED AROUND ALL SURFACE WATERBODIES? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. ALL EROSION STABILIZED SOIL BACK FROM POINT OF DISCHARGE (WITHIN 24 HOURS) (NOT MELD)? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. ARE ALL EROSION CONTROL MEASURES MAINTAINED AND OPERATIONAL? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. VEHICLE TRACKING BEST MANAGEMENT PRACTICES (BMP'S) AT ALL SITE EXITS? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. ARE ALL SWALE TRENCHES STAKED AND MAINTAINED TO AVOID COMPACTION? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. ARE ALL SWALE TRENCHES STAKED AND MAINTAINED TO AVOID COMPACTION? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. DO ALL SEDIMENT TRAPS HAVE FINE MESH FILTER CONTROLS? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

MAINTENANCE/EROSION AND SEDIMENT CONTROL BMP'S (PART 16E)

| | | | |
|---|--------------------------|--------------------------|--------------------------|
| 1. ARE ALL PREVIOUSLY STABILIZED AREAS MAINTAINING 5% GROUND COVER? | Y | N | N/A |
| 2. PERMIT CONTROL: HAS SEDIMENT REACHED ONE HALF THE HEIGHT OF THE DITCH? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. PERMIT CONTROL: HAS SEDIMENT REACHED ONE HALF THE HEIGHT OF THE DITCH? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. ARE ALL EROSION CONTROL MEASURES MAINTAINED AND OPERATIONAL? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

OTHER

| | | | |
|--|--------------------------|--------------------------|--------------------------|
| 1. ARE ALL MATERIALS THAT CAN LEACH POLLUTANTS UNDER COVER? | Y | N | N/A |
| 2. DOES THE WASHWATER BEING PROPERLY TREATED AND DISPOSED? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. DOES THE WASHWATER BEING PROPERLY TREATED AND DISPOSED? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. ARE ALL SOILS/WATERS BEING PROPERLY TREATED AND DISPOSED? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. ARE ALL SOILS/WATERS BEING PROPERLY TREATED AND DISPOSED? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. IS THE CONCRETE WASHWATER AREA MARKED WITH STRIPS? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

COMMENTS

7. WERE ANY DISCHARGES SEEN DURING THE INSPECTION, SEDIMENT, WATER, OR OTHERWARE? YES NO N/A
7.1. IF YES, STATE THE EXACT LOCATION OF ALL POINTS OF DISCHARGE, PHOTOGRAPH AND DESCRIBE THE DISCHARGE (COLOR, COOR, FOAM, OIL, LABELS, ETC), HOW WILL IT BE REMOVED, HOW/WHEN THE DISCHARGE IS TO BE REMOVED, AND HOW LONG WILL IT TAKE TO STOP IS THE DISCHARGE ONSITE AND MANAGED BY THE PERMITTEE OR DISCHARGE TO WATER BODY OR DISCHARGE TO WATER BODY? RECORDED WITHIN 7 DAYS?

8. WILL A PERMANENT STORMWATER MANAGEMENT SYSTEM BE UTILIZED IN THIS PROJECT AS REQUIRED AND IN ACCORDANCE WITH PART 16D OF THE PERMIT DESCRIBE

| | | | |
|--|--------------------------|--------------------------|--------------------------|
| 8. IS ANY DRAINAGE OCCURRING ON SITE? | Y | N | N/A |
| 9. IF YES, HOW IS IT BEING MANAGED? (HOW MUCH WATER IS BEING RUN OFF? IS THE WATER CLEAR? WHERE IS THE WATER BEING DISCHARGED TO?) | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. HAS THE SWPPP BEEN FOLLOWED AND IMPROVED ON SITE? | Y | N | N/A |
| 11. HAS THE SWPPP BEEN FOLLOWED AND IMPROVED ON SITE? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. IS A SEDIMENTATION BASIN REQUIRED FOR THIS PROJECT AS SPECIFIED IN THE PERMIT? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. IS THE LOCAL AND THIS PROJECT BEING DISCHARGED? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 13.1. IF YES, EXPLAIN HOW THE TOP SOIL IS BEING PRESERVED, IF NO, EXPLAIN WHY IT WAS IMPAIRABLE. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

14. ARE ALL INFILTRATION SYSTEMS MARKED TO AVOID COMPACTION?
14.1. DO ALL INFILTRATION AREAS HAVE PRE-TREATMENT DEVICES?
15. DESCRIPTION OF AREAS OF IMPROPER USAGE AND HOW DURING THE INSPECTION, REQUIRED CORRECTIVE ACTIONS, AND COMMENCED DATE OF COMPLETION OF CORRECTIVE ACTIONS.

| | | | |
|--|--------------------------|--------------------------|--------------------------|
| 14. ARE ALL INFILTRATION SYSTEMS MARKED TO AVOID COMPACTION? | Y | N | N/A |
| 14.1. DO ALL INFILTRATION AREAS HAVE PRE-TREATMENT DEVICES? | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. DESCRIPTION OF AREAS OF IMPROPER USAGE AND HOW DURING THE INSPECTION, REQUIRED CORRECTIVE ACTIONS, AND COMMENCED DATE OF COMPLETION OF CORRECTIVE ACTIONS. | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

16. PROPOSED AMENDMENTS TO THE SWPPP:
17. POTENTIAL AREAS OF FUTURE CONCERN
18. ADDITIONAL COMMENTS

DISCLOSURES:
THE PERMITTEE(S) IS/ARE RESPONSIBLE FOR THE INSPECTION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY MANAGEMENT BMP'S AS WELL AS EROSION PREVENTION AND SEDIMENT CONTROL BMP'S UNTIL FURTHER BUILT THE ASSURED SOURCE AREA THIS FORM ACCORDING TO PART 16E. ON THE PROJECT THE ASSURED SOURCE AREA THROUGHOUT A NOTICE OF TUMBLING HAD BEEN SUBMITTED TO THE SPCL.

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THE MOMENTS
MEMORY CARE
reimagined

PRELIMINARY:
NOT FOR
CONSTRUCTION

MOMENTS OF CHANHASSEN
1690 ARBORETUM BLVD. CHANHASSEN, MN 55317
TMSOC OF CHANHASSEN LLC
16295 KENYON AVE. LAKEVILLE, MN 55004

PROJECT:
ISSUE/PERMIT SUMMARY:
DATE: 03/26/2014
DRAWN BY: RL JS, MS
REVIEWED BY: PS
PROJECT NUMBER: 1222
REVISION SUMMARY:
DATE DESCRIPTION:

SWPPP -
ATTACHMENTS
SW1.5