

MAPLEWOOD ASSISTED LIVING



PROJECT AREA

ZONING:
THE PROPERTY IS CURRENTLY ZONED FOR THE FOLLOWING: COMMERCIAL

GOVERNING STANDARDS: COUNTY OF RAMSEY STANDARDS, CITY OF MAPLEWOOD STANDARD CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS FOR UTILITY AND STREET CONSTRUCTION, 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION", LATEST VERSION OF THE "MINNESOTA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MMUTCD)

UTILITIES:

GOPHER STATE ONE CALL
(651) 454-0002
gopherstateonecall.org

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF C/ASCE 3-2, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA."

CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS PRIOR TO COMMENCING CONSTRUCTION AS REQUIRED BY STATE LAW. GSOC INFORMATION ABOVE.

SHEET INDEX

- 1 - TITLE SHEET
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- 3 - SITE AND UTILITY PLAN
- 4 - GRADING AND EROSION CONTROL PLAN
- 5 - LANDSCAPE AND LIGHTING PLAN
- 6-7 - STORMWATER POLLUTION PREVENTION PLAN

DEVELOPER:

MAIXIA VANG
BROOKLYN PARK, MN
(952) 688-7164

ENGINEER:

KRYSTLE BLOCH, P.E. (MN 49893)
BLOCH ENGINEERING, PLLC
32210 XEON ST NW
CAMBRIDGE MN 55008
(507) 995-2981

SURVEYOR:

DENNY HONSA
HONSA SURVEYING
1592 PACIFIC AVENUE
EAGAN, MN 55122
(651) 492-6725

ARCHITECT:

KEN RIVERA
RIVERA ARCHITECTS
775 FAIRMOUNT AVE.
ST. PAUL, MN 55105
(651) 214-6767

REVISIONS			BY	DESCRIPTION
NO.	DATE			
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, AND REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.				
PRELIMINARY				
KRYSTLE L. BLOCH			49893	LIC. NO.
4-1-2022			DATE	
MAPLEWOOD ASSISTED LIVING				
1744 CO RD D				
MAPLEWOOD, MN				
OWNER: MAIXIA VANG				
0				
10				
20				
SCALE FEET				
BLOCH ENGINEERING				
BLOCH ENGINEERING, PLLC				
blochenengineering.com				
32210 XEON ST NW				
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krystle@blochenengineering.com				
DRAWN BY: KLB				
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DESIGNED BY: KLB				
JOB NO. 22-04				
DATE: 4-1-22				
SHEET C1		SHEETS 7		

EXISTING CONDITIONS
MAPLEWOOD ASSISTED LIVING

LEGEND

-  FIRE HYDRANT

 WATER VALVE

 MANHOLE

 CATCH BASIN

 POWERPOLE

 LIGHT POLE

 GUY

 TRANSFORMER

 ELECTRIC METER

 TV PEDESTAL

 TELEPHONE PEDESTAL

 AIR CONDITIONER

 HAND HOLE

 SEMAPHORE

 GAS METER

 SANITARY SEWER

 STORM SEWER

 WATERMAIN

 UNDERGROUND GAS MAIN

 UNDERGROUND TELEPHONE

 UNDERGROUND ELECTRIC

 UNDERGROUND CABLE T.V.

 OVERHEAD UTILITY LINES

 IRON MONUMENT FOUND

 IRON PIPE MONUMENT SET

 EXISTING SPOT ELEVATION

 SOIL BORING

 SIGN

 DECIDUOUS TREE

 CONIFEROUS TREE

 DENOTES TREE AND BRUSH LIMITS

 DENOTES FLARED END SECTION

 DENOTES FRENCH DRAIN

 CURB STOP

 CLEAN OUT

 MONITORING WELL

 BARBECUE GRILL

 AUTO SPRINKLER

 BASKETBALL HOOP

 BENCH

 WATER SPIGOT

 TRENCH DRAIN

 TRAFFIC CONTROL PANEL

 STORM DISPATERS

 SATELITE DISH

 TELEPHONE

 ELECTRIC PEDESTAL

 FLAG POLE

 GROUND LITE

 MAIL BOX

 ROOF DRAIN

 TRANSMISSION TOWER

 VENT PIPE

 WELL

 DENOTES ELEC. LINE

 DENOTES FENCE LINE

 DENOTES FIBER OPTIC

 DENOTES GAS LINE

 DENOTES SANITARY SEWER

 DENOTES STORM SEWER

 DENOTES TELEPHONE LINE

 DENOTES TV LINE

 DENOTES OVERHEAD UTILITY

 DENOTES WATERMAIN

 DENOTES WETLAND

 DENOTES TREELINE

 DENOTES RAIL ROAD
-
- REVISIONS

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4-1-2022

DATE

49893

LIC. NO.

MAPLEWOOD ASSISTED LIVING

1744 CO RD D

MAPLEWOOD, MN

OWNER: MAIXIA VANG



0

20

40

SCALE

FEET



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SHEET C2

SHEETS 7

LEGEND

-  FIRE HYDRANT

 WATER VALVE

 MANHOLE

 CATCH BASIN

 POWERPOLE

 LIGHT POLE

 GUY

 TRANSFORMER

 ELECTRIC METER

 TV PEDESTAL

 TELEPHONE PEDESTAL

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 DENOTES FLARED END SECTION

 DENOTES FRENCH DRAIN

 C&G CURB STOP

 C&O CLEAN OUT

 MW MONITORING WELL

 BG BARBECUE GRILL

 AS AUTO SPRINKLER

 BH BASKETBALL HOOP

 B BENCH

 WS WATER SPIGOT

 TD TRENCH DRAIN

 TCS TRAFFIC CONTROL PANEL

 SD STORM DISPATYER

 SD SATTELITE DISH

 TEL TELEPHONE

 TEL ELECTRIC PEDESTAL

 FP FLAG POLE

 GL GROUND LITE

 MB MAIL BOX

 RD ROOF DRAIN

 TT TRANSMISSION TOWER

 VP VENT PIPE

 W WELL
- E

X

FO

G

S

ST

T

TV

OU

W

WETLAND

RAIL ROAD

DENOTES ELEC. LINE

DENOTES FENCE LINE

DENOTES FIBER OPTIC

DENOTES GAS LINE

DENOTES SANITARY SEWER

DENOTES STORM SEWER

DENOTES TELEPHONE LINE

DENOTES TV LINE

DENOTES OVERHEAD UTL.

DENOTES WATERMAIN

DENOTES WETLAND

DENOTES TREELINE

DENOTES RAIL ROAD
-
- UTILITY NOTES:
- ALL EXISTING UTILITIES MUST BE FIELD VERIFIED (SEE GSOC NOTE BELOW). CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION OF ALL UTILITIES.
 - CONTRACTOR TO CONTACT ENGINEER IMMEDIATELY IF THERE ARE EXISTING DISCREPANCIES OR VARIATIONS FROM THE PLAN
 - WATER SERVICE IS 8" COMBINED (FIRE AND DOMESTIC) DIP (ZINC) CL. 52. DOMESTIC LINE 3".
 - SANITARY SERVICE IS 8" SCHEDULE 40 PVC OR SDR 35,
 - ALL UTILITIES AND PLUMBING TO BE COMPLETED PER CITY CODE AND 2015 MINNESOTA PLUMBING CODE.
 - CONTRACTOR SHALL COORDINATE ALL WORK WITH PUBLIC AND PRIVATE UTILITY COMPANIES.
 - UTILITIES ON PLAN ARE SHOWN WITHIN 5' OF THE BUILDINGS. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR FINAL CONNECTION TO BUILDING LINES. COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS ACCORDINGLY.
 - ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT GOPHER STATE ONE CALL FOR UTILITY LOCATIONS AT LEAST 48 HOURS PRIOR TO CONSTRUCTION OR EXCAVATION.
 - CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES DAMAGED DURING CONSTRUCTION.
 - MINIMUM OF 7 FEET OF COVER IS REQUIRED OVER ALL WATERMAIN AND WATER SERVICES, UNLESS OTHERWISE NOTED. NO MORE THAN 10' MAX WITH APPROVAL FROM MAPLEWOOD WATER DEPARTMENT. EXTRA DEPTH MAY BE REQUIRED TO MAINTAIN MINIMUM OF 18" VERTICAL SEPARATION TO SANITARY OR STORM SEWER LINES. WATERMAIN AT EXTRA DEPTH IS INCIDENTAL.
 - MINIMUM OF 10 FEET CLEAR HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION IS REQUIRED FOR ALL MAIN UTILITIES.
 - ALL CONSTRUCTION TO BE PER LATEST CITY OF MAPLEWOOD STANDARD DETAILS AND SPECIFICATIONS.
 - CONTRACTOR TO OBTAIN ALL UTILITY CONNECTION PERMITS FROM THE CITY OF MAPLEWOOD PUBLIC WORKS DEPARTMENT PRIOR TO BEGINNING CONSTRUCTION.
 - SANITARY AND WATER SERVICE LOCATIONS ARE APPROXIMATE, AND MUST BE FIELD VERIFIED PRIOR TO CONSTRUCTION.
- PARKING CALCULATIONS:
- 0.5 SPOTS PER UNIT
- 21 UNITS X 0.5 UNITS = 10.5 = 11 SPOTS REQUIRED
- 28 SPOTS PROVIDED (2 HC)
- | REVISIONS | | BY | DESCRIPTION | NO. | DATE | | | | | | |
|---|--|------------------|-------------|----------|------|--|--|--|--|--|--|
| | | | | | | | | | | | |
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| | | KRISTLE L. BLOCH | | 49893 | | | | | | | |
| | | 4-1-2022 | | DATE | | | | | | | |
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| 1744 CO RD D | | | | | | | | | | | |
| MAPLEWOOD, MN | | | | | | | | | | | |
| OWNER: MAIXIA VANG | | | | | | | | | | | |
| 0 5 10
SCALE FEET | | | | | | | | | | | |
| BLOCH
ENGINEERING | | | | | | | | | | | |
| BLOCH ENGINEERING, PLLC
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| DRAWN BY: KLB | | | | | | | | | | | |
| CHECKED BY: KLB | | | | | | | | | | | |
| DESIGNED BY: KLB | | | | | | | | | | | |
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| DATE: 4-1-22 | | | | | | | | | | | |
| SHEET
C3 | | SHEETS
7 | | | | | | | | | |

LEGEND

- NOTE: SITE GRADING NOTES:
1. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE FIELD LOCATION OF ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT (651) 454-0002.
 2. ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
 3. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS (TOPOGRAPHIC/SURVEY SHOT-BASED SURFACE).
 4. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
 5. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
 6. CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDINGS FOR ALL NATURAL AND PAVED/GRAVEL AREAS.
 7. TOPOGRAPHIC INFORMATION TAKEN FROM A TOPOGRAPHIC SURVEY BY LAND SURVEYORS, IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT TO THE OWNER FOR REVIEW.
 8. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.
 9. ALL PROPOSED SPOT ELEVATIONS ARE FLOWLINE UNLESS OTHERWISE NOTED.
 10. MINIMIZE COMPACTION IN INFILTRATION AREAS.

EROSION CONTROL NOTES:

1. ALL DISTURBED AREAS TO BE SEEDED AND MULCHED. 4IN MIN TOPSOIL.
2. MULCH TYPE 1 (DISK ANCHORED) IN DISTURBED AREAS
3. SEED MNDOT TYPE 35--221, AT A RATE OF 36.5 LB/AC
4. ALL SLOPES STEEPER THAN 4:1, SHALL BE RESTORED WITH SEED AND PROTECTED WITH EROSION CONTROL BLANKET PER MNDOT SPEC. 3885.1 OR SODDED AND STAKED.
5. INFILTRATION BASINS SHALL BE PROTECTED FROM SEDIMENTATION THROUGHOUT CONSTRUCTION.
6. INLET PROTECTION DEVICES SHALL BE INSTALLED ON ALL EXISTING AND PROPOSED ONSITE STORM SEWER UNTIL ALL EXPOSED SOILS ARE STABILIZED.
7. PUBLIC AND PRIVATE DRIVES AND ROADWAYS SHALL BE SWEEP AS NEEDED TO KEEP THE PAVEMENT CLEAR OF SEDIMENT AND CONSTRUCTION DEBRIS.

3.

The diagram shows a cross-section of a pond. A horizontal line at the top is labeled "TOP = SEE POND NOTES ABOVE". A horizontal line below it is labeled "HWL = SEE POND NOTES ABOVE". A diagonal line representing the pond bottom is labeled "BOTTOM = SEE POND NOTES ABOVE". A vertical line segment on the left side of the pond is labeled "5.7'".

– VARIES

MAPLEWOOD ASSISSED LIVING		OWNER: MAIXIA VANG		PRELIMINARY		REVISIONS	
1744 CO RD D		MAPLEWOOD, MN		KRISTLE L. BLOCH		NO. DATE BY DESCRIPTION	
0		10		4-1-2022			
SCALE		FEET		DATE			
BLOCH ENGINEERING		BLOCH ENGINEERING, PLLC blochengineering.com		49893			
32210 XEON ST NW CAMBRIDGE, MN 55008		krystle@blochengineering.com		LIC. NO.			
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JOB NO. 22-04		DATE: 4-1-22					
SHEET C4		SHEETS 7					

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

PROJECT DESCRIPTION:

The existing site is a total of 2.04 acres, but only 1.7 acres are being regraded. The remaining portion of the lot is existing paved roadway, and will remain in place. Runoff from this site is routed to proposed infiltration ponds on the south side of the property, as well as two smaller basins on the north to intercept runoff from the northern half of the roof. Grading, infiltration, and paving will be installed as part of this project along with building construction.

SWPPP IMPLEMENTATION

The Project Engineer and the Contractor are responsible for implementation of the SWPPP and the installation, inspection, and maintenance of the erosion prevention and sediment control BMPs before and during construction. The Contractor will have an Erosion Control Supervisor who is responsible for coordinating the erosion prevention and sediment control BMPs.

PROJECT CONTACT IMPLEMENTATION/MAINTENANCE:

Erosion and Sediment Control, BMP Inspection Performed By:
xxx
xxx LLC
xxx, MN 5xxx

Long Term Pond Maintenance Provided By:
Maxia Vang

TIMING OF BMP INSTALLATION

The erosion prevention and sediment control BMPs shall be installed as necessary to minimize erosion from disturbed surfaces and capture sediment on site.

1.

Erosion and sediment control BMPs must be installed prior to the start of construction.
2.

Where applicable, disturbed areas will immediately be temporarily stabilized prior to permanent turf establishment whenever construction ceases for 7 days, with special consideration of areas within 200 feet continuous positive slope of a surface water.
3.

Temporary or permanent energy dissipation shall be placed at pipe outlets within 24 hours after connection to a surface water.
4.

Temporary stabilization of stockpiles must be initiated immediately to limit soil erosion whenever any construction activity has permanently ceased on any portion of the site and will not resume for a period exceeding 7 calendar days.
5.

Planned slopes of 1:3 (V:H) or steeper and greater than 75 ft. in length will be temporarily or permanently stabilized in increments not to exceed 75 ft., prior to constructing or disturbing a new increment.
6.

BMPs must remain in place until final stabilization is achieved and permit NOT has been submitted to the MPCA.
7.

The normal wetted perimeter of any temporary or permanent drainage ditch or swale that drains water from any portion of the construction site, or diverts around the site, must be stabilized within 200 lineal feet from the property edge, or from the point of discharge into any surface water. Stabilization of the last 200 lineal feet must be completed within 24 hours after connecting to a surface water.

CALCULATIONS:

Total Lot(s) Area = 2.04 Ac
Total Area of Grading = 1.7 Ac
Total Existing Impervious = 0 Square Feet
Total New Impervious = 42,972 Square Feet

WATER QUALITY VOLUME = (1.1")(1'/12")(42,972 SF) = 3,939 CF

SOIL TYPES:

Majority A Soils (Web Soil Survey)

Cut/Fill Summary

Name	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
PROP VS EXIST	1.00	1.00	72336.94 Sq. Ft.	1527.35 Cu. Yd.	1109.67 Cu. Yd.	417.68 Cu. Yd.<Cut>
Totals			72336.94 Sq. Ft.	1527.35 Cu. Yd.	1109.67 Cu. Yd.	417.68 Cu. Yd.<Cut>

CONSTRUCTION SEQUENCE:

Construction to begin spring 2022. Silt fence around where specified and Rock entrances to be installed before any of the following scheduled events take place. Existing structures shall also be protected from sediment from the start of construction.

1. Grading

2. Building Constructed

3. Pakring and Drive aisle Constructed

4. Infiltration basin(s) constructed

5. Landscaping and Turf Restoration

Construction completion expected Fall 2022. All temporary erosion control measures will be removed and disposed of according to MPCA requirements. Final stabilization will be established.

If construction is not completed before winter, stockpiles and any slopes must be stabilized with appropriate BMPs (mulch, seed, erosion control blanket) as applicable to avoid erosion in the following spring season.

See NPDES CWS Permit Part 11 for inspection frequency adjustments throughout the course of scheduled construction.

IMPAIRED AND SPECIAL WATERS

No special or impaired waters within one mile of discharge point.

KARST AREA PROTECTION:

This area is not considered Karst area.

CALCAREOUS FENS:

No calcareous Fen sites exist on this project.

MITIGATION DUE TO REVIEWS:

There are no stormwater mitigation measures proposed as part of environmental, endangered species, archaeological or other required local, state or federal reviews conducted for the project.

WATERSHED NOTES:

- a.

Notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 prior to beginning construction activity to schedule an initial erosion control walk-through.
- b.

Notify Nicole Soderholm, Ramsey-Washington Metro Watershed District, at 651-792-7976 at least 48 hours prior to construction of the infiltration basins.
- c.

The specified erosion and sediment control practices are the minimum. Additional practices may be required during the course of construction.

EROSION CONTROL QUANTITIES:

EROSION CONTROL QUANTITIES		
	UNIT	QUANTITY
SILT FENCE	LF	xxx
BIOROLL	LF	XXX
INLET PROTECTION	EACH	3
TEMP. CONSTRUCTION EXIT	EACH	1

REVISIONS

NO.	DATE	BY	DESCRIPTION

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SHEET

C6

SHEETS

7

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

CONSTRUCTION NOTES:

Construction shall be in accordance with the MPCA NPDES General Stormwater Permit for construction activity, plans, Mn/DOT Spec. Book, Standard Specifications for Construction and the special provisions.

The Contractor shall maintain a stockpile of erosion control devices at all times for immediate usage.

The Contractor shall keep the inspection and maintenance log.

See permit Part 20 for SWPPP record retention requirements. SWPPP must be kept on site during construction by permittee who has operational control of that portion of the site.

In the event of accidental sediment or pollutant discharge, the City, MPCA local contact and/or State Duty Officer shall be notified. The MPCA State Duty Officer can be reached at (800) 422-0798.

TRAINING REQUIREMENTS:

1. The Permittee(s) shall ensure the individuals identified in this part have been trained in accordance with the NPDES CSW Permit's training requirements. The Permittee(s) shall ensure the training is recorded in or with the SWPPP before the start of construction or as soon as the personnel for the project have been determined.
 - a. Who must be trained:
 - i. Individual(s) preparing the SWPPP for the project.
 - ii. Individual(s) overseeing implementation of, revising, and amending the SWPPP and individual(s) performing inspections. One of these individual(s) must be available for an on site inspection within 72 hours upon request by the MPCA.
 - iii. Individual(s) performing or supervising the installation, maintenance, and repair of BMPs. At least one individual on a project must be trained in these job duties.
 - b. Training content. The content and extent of training must be commensurate with the individual's job duties and responsibilities with regard to activities covered under this permit for the project. At least one individual present on the permitted project site (or available to the project site in 72 hours) must be trained in the job duties described in Permit Part 20.
 - c. Training documentation:
 - i. Documentation must be recorded with the SWPPP prior to the start of construction.
 - ii. Names of the personnel associated with this project that are required to be trained per Part III.F of this permit.
 - iii. Dates of training and name of instructor(s) and entity providing training.
 - iv. Content of training course or workshop (including number of hours of training).
 - d. The Permittee(s) shall ensure that the individuals are trained by local, state, federal agencies, professional organizations, or other entities with expertise in erosion prevention, sediment control or permanent stormwater management such as the University of Minnesota, Minnesota Erosion Control Association, Soil and Water Conservation Districts or the MPCA.

EROSION PREVENTION MEASURES:

1. Temporary or permanent stabilization of exposed soils, including stockpiles, shall be initiated immediately to limit soil erosion whenever any construction activity has temporarily or permanently ceased on that portion of the site and will not resume for a period exceeding 7 calendar days. (Permit Part 8.4 and 23.9).
2. The normal wetted perimeter of any temporary or permanent drainage ditch or swale that drains water for any portion of the construction site, within 200 lineal feet, must be completed within 24 hours after connecting to a surface water or property edge. Mulch, hydromulch, tackifier, polyacrylamide, or similar practice is not acceptable stabilization in any part of a drainage ditch or swale with continuous slop greater than 2%. (Permit Part 8.6-8.8).
3. Use check dams along length of conveyance channels. (Permit Part 8.7).
4. Temporary or permanent energy dissipation devices must be installed at pipe outlets within 24 hours after connection to a surface water.
5. Temporary or permanent ditches or swales that are being used as a sediment containment system during construction must be stabilized within 24 hours after no longer being used as a sediment containment system.

SEDIMENT CONTROL MEASURES:

1. In order to maintain sheet flow and minimize rills and/or gullies, there shall be no unbroken slope length of greater than 75 feet for slopes with a grade of 1:3 or steeper.
2. Sediment control practices must be established on all down gradient perimeters and upgradient of any buffer zones. These practices shall remain in place until final stabilization has been achieved and the Permit NOT form has been submitted to the MPCA.
3. Temporary soil stockpiles must have silt fence or other effective sediment controls, and cannot be placed in surface waters, including stormwater conveyances such as curb and gutter systems, or conduits and ditches unless there is a bypass in place for the stormwater.
4. Vehicle tracking of sediment from the construction site (or onto streets within the site) must be minimized by Best Management Practices (BMPs) such as stone pads, concrete or steel wash racks, or equivalent systems. Tracked sediment onto paved surfaces must be removed daily, at minimum.
5. Per Part 9.3, if down gradient sediment controls are overloaded, additional upgradient sediment control practices or redundant BMPs to eliminate overloading must be installed, and the SWPPP must be amended.
6. See permit 9.6 and Part 11 for instructions on re-installation of sediment control practices after they've been adjusted.
7. See permit Part 9.7 and 9.8 for instructions on the removal of storm drain inlet protection BMPs.
8. Direct discharges from BMPs to vegetated areas, unless infeasible.

DEWATERING AND BASIN DRAINING:

1. If dewatering is required on the site, there must be a plan in place to prevent nuisance conditions, erosion and inundation of wetlands.
2. If using filters with backwash water, backwash water must be hauled away for disposal, returned to the beginning of the treatment process, or incorporated into the site in a manner that does not erode into runoff.

THE DESCRIPTION OF INSPECTIONS AND MAINTENANCE:

1. The Permittee(s) (either the owner or operator, whoever is identified in the SWPPP) must routinely inspect the entire construction site at least once every seven (7) days during active construction and within 24 hours after a rainfall event greater than 0.5 inches in 24 hours.

INSPECTION AND MAINTENANCE REQUIREMENTS MUST INCLUDE:

- Date and time of inspections. All inspections and maintenance conducted during construction shall be recorded within 24 hours in writing and these records must be retained in the SWPPP
- Name of person(s) conducting inspections.
- Findings of inspections, including specific locations where there are recommendations for corrective actions.
- Corrective actions taken (including dates, times, and party completing maintenance activities).
- Date and amount of all rainfall events greater than 1/2 inch (0.5 inches) in 24 hours. Rainfall amounts must be obtained by a properly maintained rain gauge onsite, a weather station within 1 mile of the project location, or a weather reporting system that provides site specific rainfall data from radar summaries.
- See permit Part 6.1-6.4 for amendments to SWPPP.
- Construction site vehicle exit locations must be inspected for evidence of off-site sediment tracking onto paved surfaces. Tracked sediment must be removed from all paved surfaces within 24 hours of discovery (NPDES CSW Permit Part 9.12).
- Infiltration and Bioretention facility must be inspected for sedimentation.
- Discharges discovered during inspections shall be documented per NPDES CSW Permit part 11.11.f

MAINTENANCE PERFORMANCE:

1. All nonfunctional BMPs must be repaired, replaced, or supplemented with functional BMPs by the end of the next business day after discovery, or as soon as field conditions allow access unless another time frame is specified that is not less restrictive than permit requirements. See permit Part 11.4 for specific requirements.
2. Perimeter control devices must be repaired, replaced, or supplemented when nonfunctional or sediment reaches on-half the height of the device.
3. Temporary and permanent sediment basins must be drained and sediment removed when the depth of sediment collected reaches on-half storage volume
4. All sediment deposits and deltas must be removed from surface waters (including drainage ways, catch basins, and other drainage systems) and the removal areas restabilized within 7 days.
5. Permanent stormwater treatment BMPs must be inspected and maintained per NPDES CSW Permit 11.3

POLLUTION PREVENTION MANAGEMENT:

1. Solid Waste: Sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris and other wastes must be properly collected, stored, and disposed of in accordance with Minn. R.ch.7035. This includes any materials used for erosion control.
2. Hazardous and Toxic Materials: Includes, but is not limited to: Oil, gasoline, paint and any hazardous substances must be properly stored, including secondary containment, to prevent spills, leaks or other discharge. Restricted access to storage areas must be provided to prevent vandalism. Storage and disposal of hazardous waste must be in accordance with Minn.R.Ch.7045
3. External washing of trucks and other construction vehicles must be limited to a defined area of the site. Runoff must be contained and waste properly disposed of.
4. No engine degreasing is allowed on site.
5. Concrete washout onsite: All liquid and solid wastes generated by concrete washout operations must be contained in a leak-proof containment facility or impermeable liner. A compacted clay liner that does not allow washout liquids to enter ground water is considered an impermeable liner. The liquid and solid wastes must not contact the ground, and there must not be runoff from the concrete washout operations or areas. Liquid and solid wastes must be disposed of properly and in compliance with MPCA regulations. A sign must be installed adjacent to each washout facility to inform concrete equipment operators to utilize the proper facilities.
6. Building products that have the potential to leach pollutants must be under cover. (NPDES CSW Permit Part 12.2)
7. Pesticides, herbicides, insecticides, fertilizers, treatment chemicals, and landscaped materials must be under cover. (NPDES Permit Part 12.3).
8. Portable toilets must be positioned so that they are secure and will no be tipped or knocked over. Sanitary waste must be disposed of properly in accordance with Minn.R.ch.7041. (NPDES CSW Permit Part 12.6)
9. Spill Prevention and Response Requirements: Adequate supplies must be available at all times to clean up discharged materials and an appropriate method must be available for recovered spilled materials. Spills must be reported and cleaned up immediately as required by Minn. Stat. 115.061 using dry cleanup measures where possible.

FINAL STABILIZATION:

1. Permanent stabilization of exposed soils, including stockpiles, shall be initiated immediately to limit soil erosion whenever any construction activity has permanently ceased on any portion of the site and will not resume for a period exceeding 7 calendar days.
2. The permanent stormwater treatment system must be constructed, meet all requirements, and operating as designed.
3. All sediment must be removed from permanent stormwater management system and conveyance systems.
4. All temporary synthetic erosion prevention and and sediment control BMPs must be removed.
5. See Landscape sheets for turf establishment.
6. Final stabilization is achieved by a uniform perennial vegetative cover with a density of 70% of expected growth over the entire pervious area.

DISCHARGE TO WETLANDS:

1. If there is a wetland impact caused by filling, draining, excavation or inundation, how has that impact been addressed by permits or other approvals from an official statewide program (U.S. Army Corps of Engineers 404 program, Minnesota Department of Natural Resources, or the State of Minnesota Wetland Conservation Act)? If the impact is considered exempted or non jurisdictional by theses programs, how is the impact in conformance with the sequence mitigation requirements of MPCA water quality standards in MN Rule 7050.0186
<<https://www.revisor.leg.state.mn.us/rules/?id=7050.0186>>

MISCELLANEOUS:

1. Conventional erosion and sediment control to be used. If necessary to use chemical treatment, permittee must follow guidelines as stated in NPDES Permit Part 9.18
2. No Site assessment for groundwater or soil contamination required.

MAPLEWOOD ASSISTED LIVING 1744 CO RD D MAPLEWOOD, MN OWNER: MAIXIA VANG					
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DATE: 4-1-22					
SHEET C7			SHEETS 7		