THIS STORMWATER POLLUTION PREVENTION PLAN, SWPPP ALONG WITH THE WRITTEN INSPECTION LOGS AND ANY DOCUMENTED AMENDMENTS MUST REMAIN ON THE PROJECT SITE THROUGHOUT THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SWPPP, AMENDMENTS AND INSPECTION RECORDS ON SITE DURING CONSTRUCTION.

CONSTRUCTION ACTIVITY INFORMATION

PROJECT LOCATION	SQUAW LAKE, MINNESOTA
LATITUDE/LONGITUDE	47.610972/-94.118927
PROJECT NAME	SQUAW LAKE COMMUNITY CENTER
PROJECT DESCRIPTION	THIS PROJECT CONSISTS OF THE CONSTRUCTION OF AN EXPANSION TO AN EXISTING COMMUNITY CENTER. INCLUDED IN THE PROJECT IS THE CONSTRUCTION OF A BUILDING EXPANSION, BITUMINOUS PARKING LOT, AND RESTORATION
ESTIMATED CONSTRUCTION DATES	FALL OF 2020
SOIL TYPES EXPECTED	LOAM

PROJECT OWNER

LEECH LAKE CHIPPEWA BAND
6530 HWY 2 NW
CASS LAKE, MINNESOTA 56633

CONTRACTOR

NAME:	TBD
ADDRESS:	_ _
PHONE:	_
CONTACT:	_

ADDITIONAL SWPPP IMPLEMENTATION CONTACTS

AGENCY	PERMIT	NAME	PHONE/E-MAIL
MPCA	NPDES ID# MNR 100001	JAMES DEXTER	218-529-6253 james.dexter@pca.state.mn.us
SWCD	WCA		
STATE DUTY OFFICER MPCA	N/A	MPCA	800-422-0798

TRAINING DOCUMENTATION:

OWNER'S DOCUMENTATION

SWPPP PREPARATION

SARAH A. CIOCHETTO
JPJ ENGINEERING, INC.
425 GRANT STREET
HIBBING, MINNESOTA 55746
DESIGN OF SWPPP UNIVERSITY OF
MINNESOTA JOHN CHAMPA,
FEBRUARY 13, 2020
EXPIRES MAY 31, 2023

OPERATOR'S DOCUMENTATION

SITE IMPLEMENTATION

NAME:	TBD
ADDRESS:	_ _
PHONE:	_
CONTACT:	_
TRAINING:	_

SWPPP SUPERVISOR

NAME:	TBD
ADDRESS:	_ _
PHONE:	_
CONTACT:	_
TRAINING:	_

DESIGN CALCULATIONS (WITHIN PROJECT LIMITS)

TOTAL LAND AREA DISTURBED (EXCLUSIVE OF BORROW AND DISPOSAL AREAS)	0.15 ACRES
EXISTING IMPERVIOUS SURFACE	0.18 ACRES
POST CONSTRUCTION IMPERVIOUS SURFACE	0.33 ACRES
CHANGE IN IMPERVIOUS SURFACE AREA	0.15 ACRES

PERMANENT STORMWATER TREATMENT SYSTEM **(NOT DESIGNED DUE TO LESS THAN ONE ACRE OF IMPERVIOUS SURFACE)**

RECEIVING WATERS FOR STORMWATER FROM THIS PROJECT, WITHIN 1 MILE OF PROJECT BOUNDARY

NAME	TYPE	SPECIAL WATER CLASSIFICATION	TMDL.
ROUND LAKE	LAKE	_	Hg-FISH, NUTRIENTS
_	_	_	_

ADDITIONAL REQUIRED BMP'S FOR THE SPECIAL WATERS: IMMEDIATE STABILIZATION, TEMP SED. BASIN

CONSTRUCTION ACTIVITY REQUIREMENTS

ALL CONSTRUCTION ACTIVITY SHALL COMPLY WITH THE NPDES PERMIT, ITEMS 7.1 THROUGH 12.9 AND THE FOLLOWING:
SEDIMENT CONTROL BMPS MUST BE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS AND BE UPGRADE OF ANY BUFFER ZONE OR STRUCTURES BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITY BEGINS, STABILIZATION OF EXPOSED SOIL AREAS SHALL BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION. TEMPORARY STABILIZATION OR COVERING OF EXPOSED SOIL AREAS WILL BE INITIATED IN CRITICAL AREAS OR AT CRITICAL TIME. ALL EXPOSED SOIL AREAS, INCLUDING STOCKPILES MUST BE STABILIZED. STABILIZATION MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION WHENEVER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE AND WILL NOT RESUME FOR A PERIOD EXCEEDING 7 DAYS, AND STABILIZATION MUST BE COMPLETED WITHIN 7 CALENDAR DAYS.
STORMWATER CONVEYANCE CHANNELS MUST BE ROUTED AROUND UNSTABILIZED AREAS.
THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DITCH OR SWALE MUST BE STABILIZED WITHIN 200' FROM THE PROPERTY EDGE OR FROM THE POINT OF DISCHARGE TO A WATER OF THE STATE WITHIN 24 HOURS OF CONNECTING TO THE PROPERTY EDGE OR WATER OF THE STATE. THE REMAINING PORTION SHALL BE STABILIZED WITHIN 7 CALENDAR DAYS.
DRAINAGE CULVERT AND STORM DRAIN OUTLETS SHALL HAVE ENERGY DISSIPATION (RIPRAP, SOD, ETC) PLACED WITHIN 24 HOURS AFTER CONNECTION TO A WATER OF THE STATE.
SEDIMENT CONTROL PRACTICES SHALL BE EMPLOYED AS NECESSARY TO MINIMIZE SEDIMENT FROM ENTERING A WATER OF THE STATE, INCLUDING CURB AND GUTTER SYSTEMS AND STORM SEWER INLETS.
ALL STORM INLETS WHICH HAVE THE POTENTIAL TO RECEIVE STORMWATER DISCHARGE FROM THE PROJECT SHALL BE PROTECTED UNTIL ALL AREAS ARE STABILIZED.
TEMPORARY SOIL STOCKPILES MUST HAVE PERIMETER CONTROL BMPS NEAR THE BASE AND CANNOT BE PLACED IN SURFACE WATERS INCLUDING DITCHES, CURB AND GUTTER OR OTHER CONDUITS UNLESS THERE IS A BYPASS IN PLACE FOR STORMWATER.
VEHICLE TRACKING BMPS MUST BE INSTALLED WHERE VEHICLE TRAFFIC LEAVES THE SITE. STREET SWEEPING WITH A PICKUP TYPE SWEEPER MUST BE USED IF THE VEHICLE TRACKING BMP IS NOT ADEQUATE.
TOPSOIL ON THE SITE SHALL BE PRESERVED.
A 50' NATURAL BUFFER OR REDUNDANT SEDIMENT CONTROLS, SPACED AT LEAST 5' APART, SHALL BE ESTABLISHED WHEN A SURFACE WATER IS WITHIN 50' OF A PROJECT EARTH DISTURBANCE.
DEWATERING AND BASIN DRAINING IS NOT ANTICIPATED. HOWEVER, IF THE CONTRACTOR REQUIRES DEWATERING, ALL COMPONENTS OF THE NPDES PERMIT ITEMS 10.1 THROUGH 10.2 SHALL APPLY, AND THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL PERMITS.

INSPECTIONS AND MAINTENANCE

THE CONTRACTOR'S SITE MANAGER SHALL ROUTINELY INSPECT THE PROJECT SITE, INCLUDING ALL PERIMETER CONTROL DEVICES, TEMPORARY AND PERMANENT SEDIMENT BASINS, SURFACE WATERS, CONSTRUCTION SITE VEHICLE EXIT LOCATIONS, STREETS AND OTHER AREAS ADJACENT TO THE PROJECT AND INFILTRATION AREAS ONCE EVERY 7 DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5" IN 24 HOURS. ANY MAINTENANCE OR REPAIR OF PERMANENT OR TEMPORARY SEDIMENT AND EROSION CONTROL BMPS SHALL BE COMPLETE BY THE CONTRACTOR (WHICH SHALL BE INCIDENTAL). ALL INSPECTIONS AND MAINTENANCE/REPAIR SHALL BE RECORDED IN WRITING WITHIN 24 HOURS AND SUCH RECORDS RETAINED WITH THE SWPPP. RAINFALL AMOUNTS MUST BE OBTAINED (BY CONTRACTOR) BY A PROPERLY MAINTAINED RAIN GAUGE ON SITE, A WEATHER STATION WITHIN 1 MILE OF THE PROJECT OR A WEATHER REPORTING SYSTEM THAT PROVIDES SITE SPECIFIC RAINFALL DATA FROM RADAR SUMMARIES.
ALL PERIMETER CONTROL DEVICES WILL BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NON FUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT OF THE DEVICE. REPAIRS TO BE MADE BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
TEMPORARY OR PERMANENT SEDIMENT BASINS MUST BE DRAINED AND SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT REACHES 1/2 THE STORAGE VOLUME. DRAINAGE AND SEDIMENT REMOVAL MUST BE COMPLETED WITHIN 72 HOURS OF DISCOVERY OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.
SURFACE WATERS (INCLUDING DITCHES AND OTHER CONVEYANCE SYSTEMS) MUST BE INSPECTED FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION.
CONSTRUCTION SITE VEHICLE EXIT LOCATIONS MUST BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED WITHIN 24 HOURS OF DISCOVERY (BY A PICK UP TYPE SWEEPER) FROM ALL PAVED SURFACES ON OR OFF THE PROJECT.
STREETS AND OTHER ADJACENT AREAS ADJACENT TO THE PROJECT MUST BE INSPECTED FOR EVIDENCE OF OFF SITE ACCUMULATIONS OF SEDIMENT.

FINAL STABILIZATION

FINAL STABILIZATION OF DISTURBED SOIL AREAS WILL CONSIST OF SEED, SOD, BITUMINOUS, CONCRETE, AGGREGATE SURFACED ROADS, OR BUILDINGS.
FINAL STABILIZATION WILL BE CONSIDERED COMPLETE AND A NOTICE OF TERMINATION SUBMITTED WHEN: ALL THE SOIL DISTURBING ACTIVITY IS COMPLETE. SOILS ARE STABILIZED BY A UNIFORM PERENNIAL VEGETATIVE COVER OF AT LEAST 70%.
THE PERMANENT STORMWATER MANAGEMENT SYSTEM IS CONSTRUCTED AND OPERATING.
ALL TEMPORARY SYNTHETIC AND STRUCTURAL EROSION PREVENTION AND SEDIMENT CONTROL BMPS HAVE BEEN REMOVED.

LOCATION OF SWPPP REQUIREMENTS IN PROJECT PLAN

DESCRIPTION	TITLE	LOCATION
SUMMARY OF PERVIOUS AND IMPERVIOUS	SWPPP	SHEET 1
DIRECTION OF FLOW/DRAINAGE AREA	PLAN/PROFILES	SHEET 5
RECEIVING SURFACE WATERS	SWPPP	SHEET 1
SOIL TYPE DATA AND MAPS	SWPPP	OFFICE
EROSION CONTROL SHEETS		SHEETS 5
EROSION CONTROL DETAILS	DETAILS	SHEET 3-4
WATER RETENTION BASIN	EROSION CONTROL	N/A

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SQUAW LAKE
COMMUNITY CENTER
SQUAW LAKE, MINNESOTA

STORMWATER POLLUTION
PREVENTION PLAN

REVISION DATE:	DESCRIPTION:

SURVEYED
DESIGNED SC
DRAWN SC
CHECKED JPJ

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed professional Engineer under the laws of the State of Minnesota.

JOHN P. JAMNICK, P.E.

DATE 9-11-2020 LIC. NO. 19907

20-780
PROJECT #

CONSTRUCTION PRACTICES TO MINIMIZE STORMWATER CONTAMINATION

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

1. ALL AREAS THAT ARE ROUGH GRADED MUST BE KEPT IN A SMOOTH CONDITION TO ALLOW SHEET FLOW OF STORMWATER WHEREVER PRACTICAL AND ALWAYS READY FOR SURFACE APPLICATION OF DEGRADABLE OR NON-DEGRADABLE BLANKETS, MULCH, OR OTHER PROTECTIVE COVERS.
2. A STABILIZED CONSTRUCTION ENTRANCE/EXIT WILL BE CONSTRUCTED TO REDUCE VEHICLE TRACKING OF SEDIMENTS OFF THE PROJECT RIGHT OF WAY.
3. ALL NON-HAZARDOUS WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER OR OTHER APPROVED CONTAINMENT METHOD AT THE END OF EACH DAY. ANY ALTERNATIVE TO A METAL DUMPSTER MUST BE SUBMITTED IN WRITING FOR APPROVAL BY THE PROJECT ENGINEER. THE COLLECTION STORAGE AND DISPOSAL OF SOLID WASTE SHALL BE IN COMPLIANCE WITH MINNESOTA RULES CH. 7035. NO CONSTRUCTION MATERIALS WILL BE BURIED ONSITE. THE CONTRACTOR'S EROSION CONTROL SUPERVISOR WILL INSTRUCT ALL PERSONNEL REGARDING THE CORRECT PROCEDURE FOR DISPOSAL.
4. A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR WILL COLLECT ALL SANITARY WASTE FROM THE PORTABLE UNITS AT A RATE NECESSARY TO MAINTAIN DESIGNED FUNCTION. ALL PORTABLE UNITS MUST BE POSITIONED SO THAT THEY ARE SECURE AND CANNOT BE TIPPED OR KNOCKED OVER.
5. ALL VEHICLES ONSITE WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE.
6. BUILDING PRODUCTS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS MUST BE UNDER COVER OR PROTECTED BY SIMILARLY EFFECTIVE MEANS TO MINIMIZE CONTACT WITH STORMWATER AND PREVENT THE DISCHARGE OF POLLUTANTS
7. PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, AND LANDSCAPE MATERIALS MUST BE UNDER COVER OR PROTECTED BY SIMILARLY EFFECTIVE MEANS TO MINIMIZE CONTACT WITH STORMWATER AND PREVENT THE DISCHARGE OF POLLUTANTS.
8. SPILL KITS WILL BE INCLUDED WITH ALL FUELING SOURCES AND MAINTENANCE ACTIVITIES. SECONDARY CONTAINMENT MEASURES WILL BE INSTALLED AND MAINTAINED BY THE CONTRACTOR.
9. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
10. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN AN ENCLOSED TRAILER OR SHED ONSITE. EQUIPMENT WILL INCLUDE, BUT NOT BE LIMITED TO: BROOMS, MOPS, DUST PANS, RAGS, GLOVES, GOGGLES, ABSORBENT (KITTY LITTER), OIL ABSORBENT BOOMS AND DIAPERS, AND BUCKETS.
11. ALL SPILLS WILL BE CONTAINED AND CLEANED UP IMMEDIATELY UPON DISCOVERY. SPILLS LARGE ENOUGH TO REACH THE STORMWATER CONVEYANCE SYSTEM WILL BE REPORTED TO THE MINNESOTA DUTY OFFICER AT 1-800-422-0798.
12. CONTRACTOR SHALL FOLLOW THE MNDOT GUIDANCE FOR BEST MANAGEMENT PRACTICES FOR CONCRETE WASHOFF OF VEHICLE, EQUIPMENT, PAVEMENT AND WALLS.
13. FORM RELEASE OIL USE FOR CONCRETE WORK MUST BE APPLIED OVER A PALLET CONTAINING ABSORBENT TO COLLECT EXCESS LIQUID. THE ABSORBENT MATERIAL WILL BE REPLACED AND PROPERLY DISPOSED WHEN SATURATED.
14. DISCHARGES FROM BASIN DEWATERING OPERATIONS THAT ARE TURBID OR SEDIMENT LADEN SHALL BE DISCHARGED TO TEMPORARY SEDIMENT BASINS CONSTRUCTED ON THE SITE TO PROVIDE TREATMENT PRIOR TO DISCHARGE TO A WATER OF THE STATE. IF BASINS ARE NOT FEASIBLE, DISCHARGES WILL BE DISPERSED OVER NATURAL ROCK RIPRAP, SHEETING, PLASTIC OR OTHER ENERGY DISSIPATION MEASURES. (DEWATERING AND ANY SWPPP MEASURES ARE INCIDENTAL).
15. CONTRACTOR SHALL FOLLOW MNDOT GUIDANCE FOR WATER POLLUTION CONTROL FOR VEHICLE AND EQUIPMENT OPERATIONS.
16. ALL STATIONARY EQUIPMENT AND TANKS SHALL HAVE SECONDARY CONTAINMENT. MOBILE FUELING OPERATIONS SHALL USE DRIP PANS OR PADS TO PROTECT SOILS.
17. NO ENGINE DEGREASING IS ALLOWED ON THE SITE.

AMENDMENTS TO SWPPP	DATE
1.	
2.	
3.	
4.	

Significant Materials Inventory

Pollutants that result from clearing, grading, excavation, bridge and road building and have the potential to be present are listed in the following table. This table includes information regarding the material type, chemical and physical description, and the specific regulated storm water pollutants associated with each material:

Material/Chemical	Physical Description	Storm Water Pollutants	Location	Management Practice
Pesticides	Various colored colorless liquid, aerosols, powders, pellets or grains	Chlorinated hydrocarbons, organophosphates, carbamates, arsenic	Herbicides for Brush and weed control	Use of Certified Applicator and proper storage and container disposal
Permanent Fertilizer	Liquids or Solid Grains	Nitrogen, Phosphorous, Potassium	Newly seeded areas	Minimize Phosphates, apply appropriate rates
Temporary Fertilizer	Liquids or Solid Grains	Nitrogen, Phosphorous, Potassium	Rapid Stabilization Areas, Stockpiles	Managed application. quick growth planting
Cleaning Solvents	Colorless, blue or yellow green liquids	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates	Concrete prep and cleaning. Storage areas	No equipment Cleaning in Project area Proper storage Spill kits
Construction Wastewater	Rinsate from Equipment washing	Soil, oil, grease and other solids	Storm water conveyance system	No equipment cleaning in Project area
Asphalt	Black Solid	Oil, Petroleum Distillates	Highway surfacing	Excess material removed from project area
Concrete	White Solid	Limestone, Sand	Bridge Construction	Designated wash areas or complete removal
Glue, Adhesives	White or Yellow liquid	Polymers, epoxies	Expansion joints	Empty Container management
Paints	Various colored liquids	Metal oxides, stoddard solvent, talc, calcium carbonate, lead, arsenic	Bridge rails, signposts, storage	Empty Container Management
Curing Compounds	Creamy white liquid	Naphtha	Bridge	Empty Container Management
Wood Preservatives	Clear, amber, or dark brown liquid	Stoddard solvent, petroleum, distillates, arsenic, copper, chromium	Timber beams, sign posts, guardrail posts, storage areas	Follow manufacturers guidelines
Hydraulic Oils	Brown, red or other colors, oily	Petroleum and additives	Random leaks	Preventive maintenance, inspections, spill kits on site
Gasoline	Colorless, pale brown or pink	Petroleum hydrocarbons, Benzene, ethyl benzene, toluene, xylene, MTBE	Vehicles storage	Secondary containment Preventive maintenance, inspections, spill kits on site
Diesel Fuel	Clear, blue green, or yellow liquid	Petroleum distillate, oil, naphthalene, xylene	Vehicles storage	Secondary containment Preventive maintenance, inspections, spill kits on site
Anti-freeze, Coolant	Clear, green/yellow liquid	Ethylene glycol, propylene glycol	Random leaks	Preventive maintenance, inspections, spill kits on

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COMMUNITY CENTER
SQUAW LAKE, MINNESOTA

STORMWATER POLLUTION
PREVENTION PLAN

REVISION DATE:	DESCRIPTION:

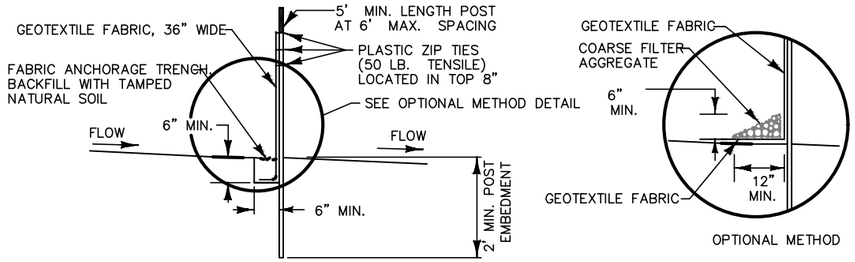
SURVEYED
DESIGNED SC
DRAWN SC
CHECKED JPJ

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed professional Engineer under the laws of the State of Minnesota.

JOHN P. JAMNICK, P.E.

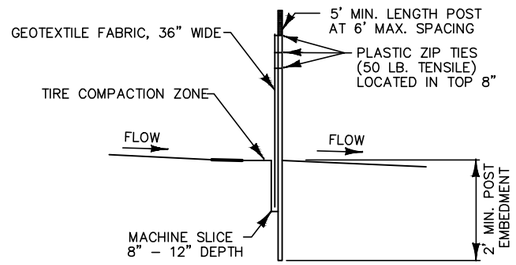
DATE 9-11-2020 LIC. NO. 19907

20-780
PROJECT #



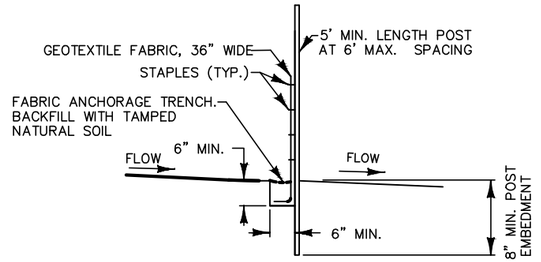
SILT FENCE TYPE HI (HAND INSTALLED)

COARSE FILTER AGGREGATE (SPEC. 3149) SHALL BE INCIDENTAL.
TO PROTECT AREAS FROM SHEET FLOW. MAXIMUM CONTRIBUTING AREA: 1 ACRE.



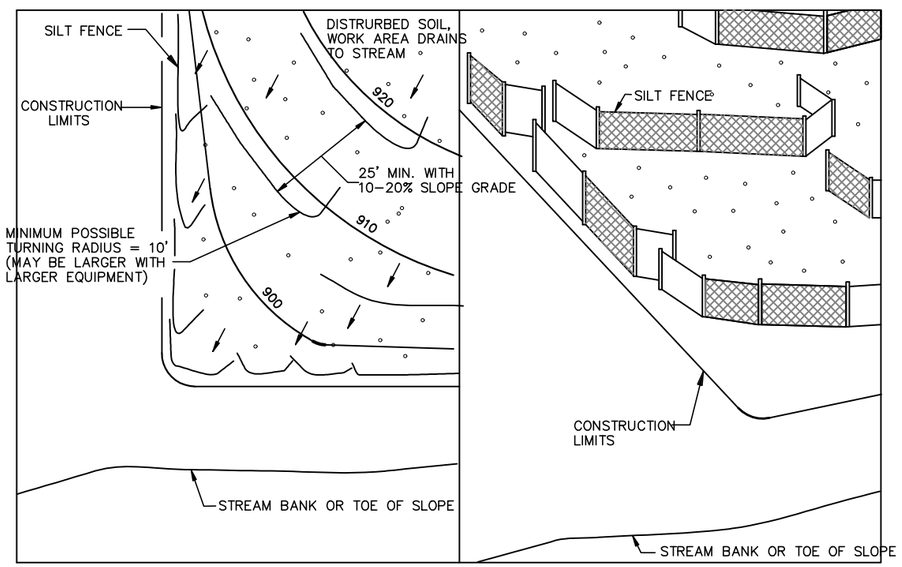
SILT FENCE TYPE MS (MACHINE SLICED)

TO PROTECT AREAS FROM SHEET FLOW.
MAXIMUM CONTRIBUTING AREA: 1 ACRE.

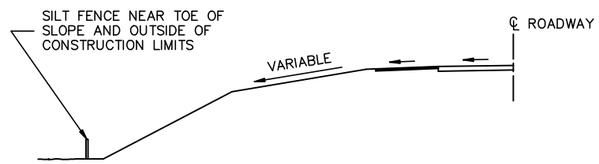


SILT FENCE TYPE PA (PREASSEMBLED)

TO PROTECT AREAS FROM SHEET FLOW.
MAXIMUM CONTRIBUTING AREA: 0.25 ACRE.



J–HOOK INSTALLATION



LOCATION AT TOE OF ROADWAY EMBANKMENT

NOTES: SEE SPECS. 2573, 3149 & 3886.

① COARSE FILTER AGGREGATE (SPEC. 3149) SHALL BE INCIDENTAL.
② TO PROTECT AREAS FROM SHEET FLOW. MAXIMUM CONTRIBUTING AREA: 1 ACRE.
③ TO PROTECT AREAS FROM SHEET FLOW. MAXIMUM CONTRIBUTING AREA: 0.25 ACRE.
④ WATER COURSE FLOW VELOCITY: STANDING. CONTRIBUTING SLOPE AREA: 1./2 ACRE.
⑤ WATER COURSE FLOW VELOCITY: 1 TO 7'/SEC. CONTRIBUTING SLOPE AREA: 1. ACRE.
⑥ WATER COURSE FLOW VELOCITY: 8 TO 15'/SEC. CONTRIBUTING SLOPE AREA: 3 ACRES.

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SQUAW LAKE, MINNESOTA

TEMP SEDIMENT CONTROL
SILT FENCE
DETAILS

REVISION DATE:	DESCRIPTION:

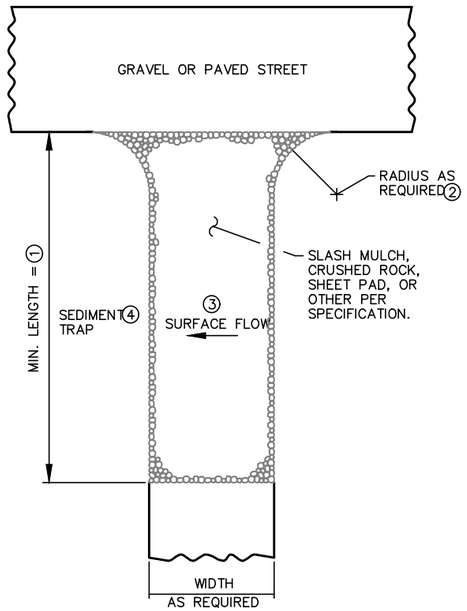
SURVEYED
DESIGNED SC
DRAWN SC
CHECKED JPJ

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed professional Engineer under the laws of the State of Minnesota.

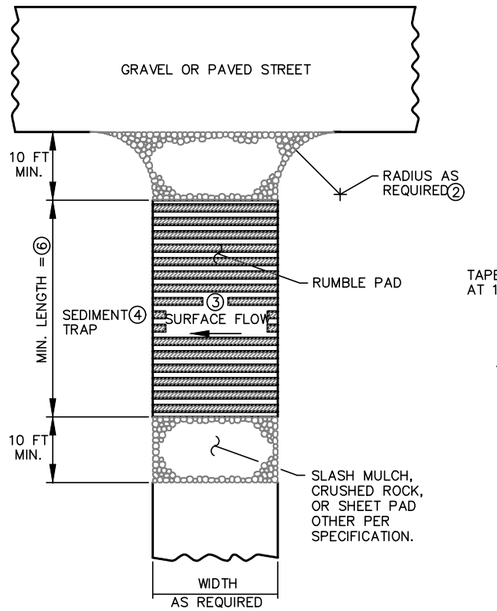
JOHN P. JAMNICK, P.E.

DATE 9–11–2020 LIC. NO. 19907

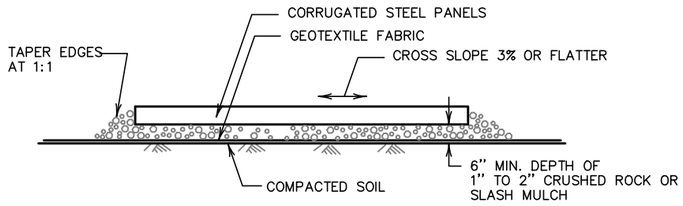
20–780
PROJECT #



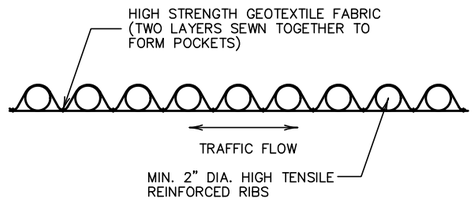
SLASH MULCH, CRUSHED ROCK OR SHEET PAD CONSTRUCTION EXIT ⑤⑦



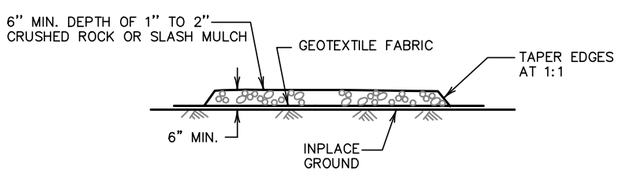
RUMBLE PAD CONSTRUCTION EXIT ⑤⑦



RUMBLE PAD



SHEET PAD



SLASH MULCH OR CRUSHED ROCK

NOTES:

① MINIMUM LENGTH SHALL BE THE GREATER OF 50' OR A LENGTH SUFFICIENT TO ALLOW A MINIMUM OF 5 TIRE ROTATIONS ON THE PROVIDED PAD. MINIMUM LENGTH SHALL BE CALCULATED USING THE LARGEST TIRE WHICH WILL BE USED IN TYPICAL OPERATIONS.

② PROVIDE RADIUS OR WIDEN PAD SUFFICIENTLY TO PREVENT VEHICLE TIRES FROM TRACKING OFF OF PAD WHEN LEAVING SITE.

③ IF RUNOFF FROM DISTURBED AREAS FLOWS TOWARD CONSTRUCTION EXITS, PREVENT RUNOFF FROM DRAINING DIRECTLY TO PUBLIC ROAD OVER CONSTRUCTION EXIT BY CROWNING THE EXIT OR SLOPING TO ONE SIDE. IF SURFACE GRADING IS INSUFFICIENT, PROVIDE OTHER MEANS OF INTERCEPTING RUNOFF.

④ IF RUNOFF FROM CONSTRUCTION EXITS WILL DRAIN OFF OF PROJECT SITE, PROVIDE SEDIMENT TRAP WITH STABILIZED OVERFLOW.

⑤ IF A TIRE WASH OFF IS REQUIRED THE CONSTRUCTION EXITS SHALL BE GRADED TO DRAIN THE WASH WATER TO A SEDIMENT TRAP.

⑥ MINIMUM LENGTH OF RUMBLE PAD SHALL BE 20', OR AS REQUIRED TO REMOVE SEDIMENT FROM TIRES. IF SIGNIFICANT SEDIMENT IS TRACKED FROM THE SITE, THE RUMBLE PAD SHALL BE LENGTHENED OR THE DESIGN MODIFIED TO PROVIDE ADDITIONAL VIBRATION. WASH-OFF LENGTH SHALL BE AS REQUIRED TO EFFECTIVELY REMOVE CONSTRUCTION SEDIMENT FROM VEHICLE TIRES.

⑦ MAINTENANCE OF CONSTRUCTION EXITS SHALL OCCUR WHEN THE EFFECTIVENESS OF SEDIMENT REMOVAL HAS BEEN REDUCED. MAINTENANCE SHALL CONSIST OF REMOVING SEDIMENT AND CLEANING THE MATERIALS OR PLACING ADDITIONAL MATERIAL (SLASH MULCH OR CRUSHED ROCK) OVER SEDIMENT FILLED MATERIAL TO RESTORE EFFECTIVENESS.

⑧ CLEAN PAVED STREETS AT THE END OF THE DAY, OR MORE FREQUENTLY AS NECESSARY.

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TEMP SEDIMENT CONTROL
CONSTRUCTION SITE EXIT
CONTROLS
DETAILS

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CHECKED JPJ

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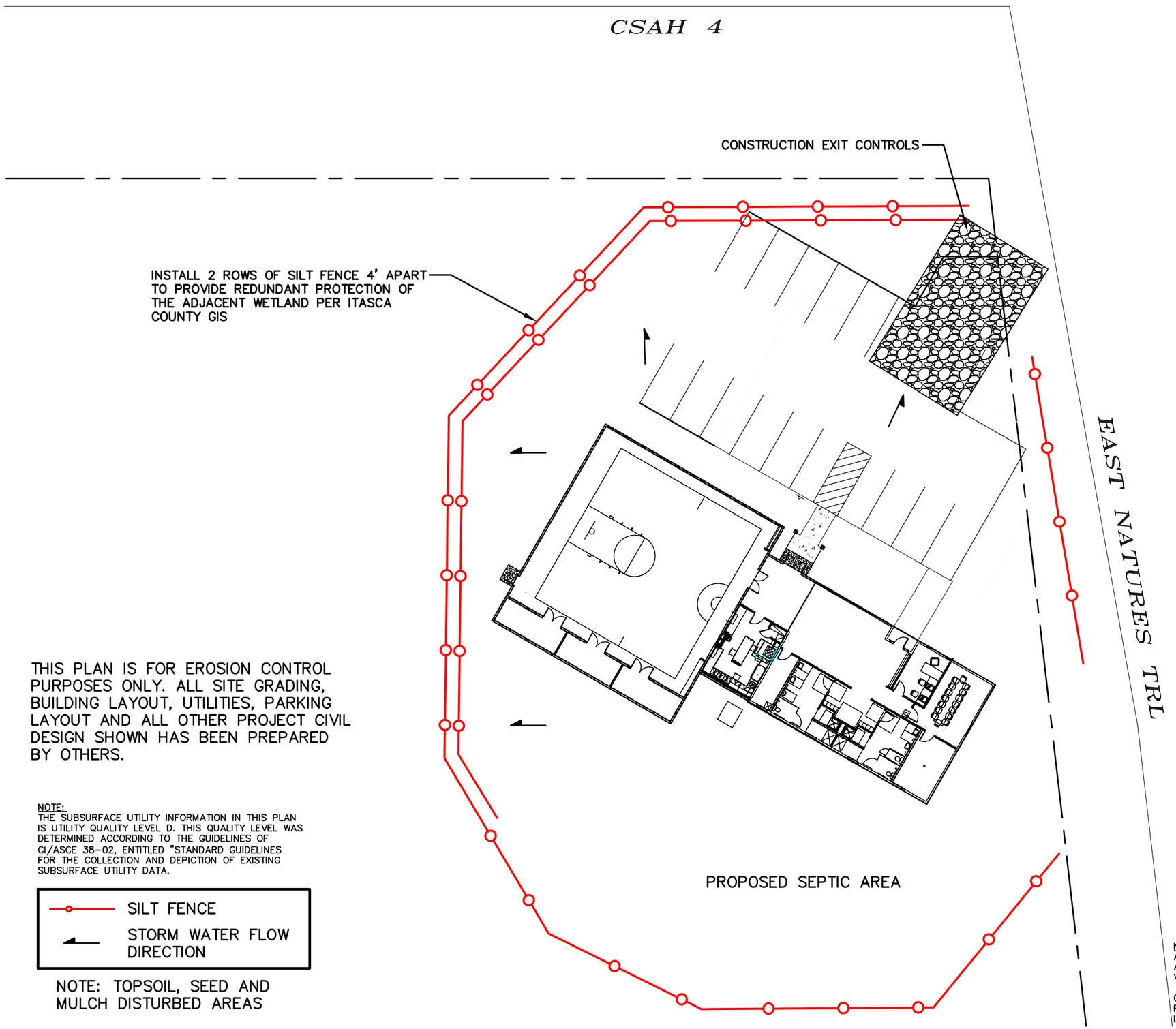
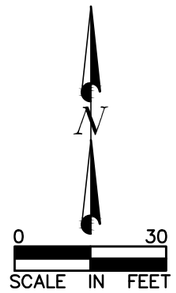
JOHN P. JAMNICK, P.E.

DATE 9-11-2020 LIC. NO. 19907

20-780
PROJECT #

Call 48 Hours before digging
GOPHER STATE ONE CALL
Twin Cities Area 651-454-0002
MN. Toll Free 1-800-252-1166





THIS PLAN IS FOR EROSION CONTROL PURPOSES ONLY. ALL SITE GRADING, BUILDING LAYOUT, UTILITIES, PARKING LAYOUT AND ALL OTHER PROJECT CIVIL DESIGN SHOWN HAS BEEN PREPARED BY OTHERS.

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

SILT FENCE
STORM WATER FLOW DIRECTION

NOTE: TOPSOIL, SEED AND MULCH DISTURBED AREAS

NOTE:
ANY PUBLIC UTILITIES SHOWN ON THIS PLAN ARE ONLY APPROXIMATE IN DEPTH AND LOCATION AND MUST BE VERIFIED BY THE CONTRACTOR.

OTHER UTILITIES MAY EXIST AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN THE LOCATION OF SUCH.

Engineering
Land Surveying
Site Development

JPJ ENGINEERING, INC
425 Grant Street
Hibbing, MN 55746
(218) 262-5528

5670 Miller Trunk Hwy
Duluth, MN 55811
(218) 720-6219

www.jpjeng.com

SQUAW LAKE
COMMUNITY CENTER
SQUAW LAKE, MINNESOTA

EROSION CONTROL PLAN

REVISION DATE:	DESCRIPTION:

SURVEYED
DESIGNED SC
DRAWN SC
CHECKED JPJ

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

John P Jamnick

JOHN P. JAMNICK, P.E.

DATE 9-11-2020 LIC. NO. 19907

20-780
PROJECT NO.

5

Sep 11, 2020 2:05pm
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