

GENERAL PROJECT INFORMATION

PROJECT LOCATION AND NARRATIVE:

THIS PROJECT CONSISTS OF A 31 LOT SINGLE FAMILY SUBDIVISION IN ELK RIVER, MN. THE SITE IS LOCATED NEAR LONGITUDE -93.5911, LATITUDE 45.3255. THE SITE IS ACCESSED FROM YORK STREET NW AND 195TH AVENUE NW.

CONSTRUCTION ACTIVITIES INCLUDE GRADING, UTILITY INSTALLATION, AGGREGATE & BITUMINOUS PLACEMENT, CURB AND CUTTER, SIDEWALK AND BITUMINOUS TRAIL CONSTRUCTION, STORM SEWER INSTALLATION, INFILTRATION BASIN CONSTRUCTION, AND HOMEBUILDING.

CONSTRUCTION IS PLANNED TO BEGIN SUMMER OF 2020 AND HOMEBUILDING IS ANTICIPATED TO EXTEND INTO 2022.

RESPONSIBLE PARTIES:

CONTRACTOR MUST BE TRAINED FOR BOTH CONSTRUCTION INSTALLER AND SITE MANAGEMENT PER REQUIREMENTS OF THE PERMIT, PART III.F.

BENZINGER PROPERTIES, INC. OWNER JEFF BENZINGER CONTACT PERSON 763-428-3039 PHONE

OTTO ASSOCIATES, INC. PLAN PREPARER CARA SCHWAHN OTTO CONTACT PERSON 763-682-4727 PHONE

TRAINING: 11/29/2018 (EXPIRES 2022) U OF MN CERTIFICATION - DESIGN OF CONSTRUCTION SWPPP
3/29/2017 (EXPIRES 2020) U OF MN CERTIFICATION - SITE MANAGEMENT

TBD

CONTRACTOR (RESPONSIBLE FOR INSTALLATION & INSPECTION) CONTACT PERSON PHONE

CITY OF ELK RIVER PARTY RESPONSIBLE FOR LONG TERM O&M OF PERMANENT STORMWATER MANAGEMENT SYSTEM BRANDON WISNER CONTACT PERSON 763-635-1054 PHONE

PROJECT AREAS:

TOTAL PROJECT SIZE (DISTURBED AREA) = 13.1 ACRES

EXISTING AREA OF IMPERVIOUS SURFACE = 0.0 ACRES
POST-CONSTRUCTION AREA OF IMPERVIOUS SURFACE = 4.7 ACRES
TOTAL NEW IMPERVIOUS SURFACE AREA CREATED = 4.7 ACRES

RECEIVING WATERS:

SURFACE WATERS AND WETLANDS THAT WILL RECEIVE STORM WATER RUNOFF FROM THE SITE AND ARE WITHIN ONE (1) MILE OF THE SITE ARE INDICATED WITH DIRECTION ARROW ON THE SWPPP PLAN SHEET AND ARE LISTED BELOW:

NAME OF WATER BODY	IMPAIRED WATER
UNNAMED WETLAND	NO

THE OWNER SHALL SUBMIT A NOTICE OF TERMINATION (NOT) AFTER ONE OF THE FOLLOWING HAS BEEN COMPLETED, WHICHEVER OCCURS FIRST.

1. WITHIN 30 DAYS AFTER FINAL STABILIZATION (PERMIT SECTION 13) IS COMPLETE.
2. WITHIN 30 DAYS AFTER SELLING OR OTHERWISE LEGALLY TRANSFERRING THE ENTIRE SITE.
3. IF 90% (BY AREA) OF ALL ORIGINALLY PROPOSED CONSTRUCTION ACTIVITY HAS BEEN COMPLETED AND PERMANENT COVER HAS BEEN ESTABLISHED ON THOSE AREAS.

ALTERNATIVELY, THE OWNER MAY SUBMIT A PERMIT MODIFICATION FORM FOR EACH HOMEBUILDER/HOMEOWNER AS LOTS ARE SOLD. THE NEW OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR AMENDING THE SWPPP AS NECESSARY TO SPECIFICALLY ADDRESS THEIR WORK AND SUBMIT A NOTICE OF TERMINATION (NOT) ACCORDING TO THE SAME REQUIREMENTS ABOVE.

RECORD PLANS: 2-1-22
CONTRACTOR: BURSCHVILLE
CONSTRUCTION, INC.

CONSTRUCTION ACTIVITY NOTES

ALL CONSTRUCTION ACTIVITIES MUST MEET THE REQUIREMENTS OF THE MPCA'S NPDES GENERAL STORMWATER PERMIT FOR CONSTRUCTION ACTIVITY.

EROSION PREVENTION:

ALL EXPOSED SOIL AREAS (INCL. STOCKPILES) MUST BE STABILIZED. STABILIZATION MUST BE INITIATED IMMEDIATELY TO LIMIT SOIL EROSION BUT COMPLETED NO CASE LATER THAN 14 DAYS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

TEMPORARY TURF RESTORATION SHALL BE MNDOT SEED MIX 25-121 @ 61 LB/ACRE WITH MNDOT TYPE 1 MULCH @ 2 TONS/ACRE (DISC ANCHORED) AND 12-5-10 TYPE 3 FERTILIZER (350 LBS/ACRE). STABILIZATION MUST BE INITIATED IMMEDIATELY BUT IN NO CASE COMPLETED LATER THAN 14 DAYS AFTER THE ACTIVITY IN THAT PORTION OF THE SITE HAS TEMPORARILY OR PERMANENTLY CEASED.

PERMANENT TURF RESTORATION SHALL BE SEED OR SOD (PER HOMEBUILDER). AFTER HOME CONSTRUCTION,

THE FOLLOWING SHALL BE INSTALLED WITHIN 24 HOURS OF CONNECTION TO SURFACE WATER:

- 1) ENERGY DISSIPATION (RIPRAP) AT ALL OUTLET APRONS
- 2) STABILIZATION OF THE NORMAL WETTED PERIMETER OF ANY TEMPORARY OR PERMANENT DRAINAGE SWALES WITHIN 200' OF EDGE OF SITE OR CONNECTION TO SURFACE WATER

SEDIMENT CONTROL PRACTICES:

A 50 FOOT NATURAL BUFFER SHALL BE MAINTAINED FROM ALL SURFACE WATERS.

ENTERING/EXITING THE SITE SHALL OCCUR ONLY AT ROCK CONSTRUCTION ENTRANCES TO LIMIT TRACKING OF SEDIMENT ONTO STREETS.

SEDIMENT TRACKED ONTO STREETS DURING WORKING HOURS MUST BE RECLAIMED VIA SCRAPING AND SWEEPING AT END OF EACH WORKING DAY.

TEMPORARY SOIL STOCKPILES SHALL HAVE SILT FENCE OR OTHER EFFECTIVE SEDIMENT CONTROLS INSTALLED AT THE BASE ON THE DOWNGRADIENT PERIMETER. NO STOCKPILE MAY BE PLACED IN ANY NATURAL BUFFERS OR SURFACE WATER.

IF DEWATERING IS NECESSARY, DISCHARGE SHALL BE TO A TEMPORARY OR PERMANENT SEDIMENT BASIN. IF INFEASIBLE, CONTRACTOR MAY DEWATER TO SURFACE WATERS IF THEY VISUALLY CHECK TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED AND NUISANCE CONDITIONS WILL NOT RESULT. NO EROSION OR SCOUR AT THE DISCHARGE POINT SHALL OCCUR AND WETLAND INUNDATION SHALL BE CHECKED THAT IT DOESN'T CAUSE ADVERSE IMPACT TO THE WETLAND.

CONSTRUCTION SEQUENCING:

- 1) PRECONSTRUCTION MEETING.
- 2) INSTALL PERIMETER SILT FENCE & ROCK CONSTRUCTION ENTRANCE.
- 3) INSTALL DOWNSTREAM INLET PROTECTION TO OFF-SITE CATCH BASINS.
- 4) TOPSOIL STRIP.
- 5) ROUGH GRADE SITE & STABILIZE DISTURBED AREAS ACCORDING TO THE NPDES PERMIT TIMELINE. LEAVE INFILTRATION BASIN 3' HIGH; INSTALL PERIMETER SILT FENCE AND SIDE SLOPE BLANKET AROUND BASIN TO PROTECT DURING CONSTRUCTION.
- 6) INSTALL UTILITIES.
- 7) COMPLETE ROAD CONSTRUCTION.
- 8) COMPLETE INFILTRATION BASIN CONSTRUCTION & RESTORATION.
- 9) INSTALL PRIVATE UTILITIES - GAS, ELECTRIC, TELEPHONE, ETC.
- 10) TOPSOIL RESPREAD.
- 11) STABILIZE DISTURBED AREAS WITHIN PERMIT TIMELINE.
- 12) HOME CONSTRUCTION.
- 13) RESTORE SITE WITH PERMANENT RESTORATION AS HOMES ARE BUILT.
- 14) REMOVE SEDIMENT CONTROL DEVICES AND SUBMIT NOTICE OF TERMINATION (NOT) TO MPCA ONCE ALL DISTURBED AREAS HAVE 70% VEGETATIVE DENSITY.

EROSION & SEDIMENT CONTROL BMP ESTIMATED QUANTITIES:

QUANTITIES LISTED ARE APPROXIMATE. REFER TO CONTRACT DOCUMENTS FOR EXACT QUANTITIES.

BMP	EST. QUANTITY
SILT FENCE	6,850 LF
ROCK CONST. ENTRANCE	1 EACH
MNDOT SEED MIX 25-121, TYPE 1 MULCH, 12-5-10 TYPE 3 FERTILIZER	8 AC
SEED OR SOD (PER HOMEBUILDER)	8 AC
MNDOT SEED MIX 33-261	1,700 SY
IN-STREET INLET PROTECTION	18 EACH
GREEN AREA INLET PROTECTION	1 EACH
BIOROLL INLET PROTECTION	1 EACH
MNDOT 3885 CAT. 3N EROSION CONTROL BLANKET	6,560 SY
CONCRETE EROSION MAT	4 EACH
SAFL BAFFLE	3 EACH

CONSTRUCTION NOTES

INSPECTIONS AND MAINTENANCE:

THE CONTRACTOR MUST HAVE A TRAINED PERSON TO ROUTINELY INSPECT THE CONSTRUCTION SITE ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS OF A RAINFALL EVENT GREATER THAN 0.5 INCHES IN A 24-HR PERIOD. INSPECTION LOGS SHALL INCLUDE ANY CORRECTIVE MEASURES TO BE TAKEN. CORRECTIVE MEASURES SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AFTER DISCOVERY UNLESS OTHERWISE SPECIFIED DUE TO FIELD CONDITIONS THAT PREVENT ACCESS TO THE AREA.

ALL INSPECTIONS MUST BE RECORDED AND RECORDS RETAINED WITH THE SWPPP ON SITE. THE SWPPP, ALONG WITH INSPECTIONS AND MAINTENANCE RECORDS, SHALL BE RETAINED FOR THREE YEARS AFTER SUBMITTAL OF THE NOTICE OF TERMINATION (NOT).

SILT FENCE MUST BE MAINTAINED WHEN ACCUMULATED SEDIMENT REACHES 1/2 OF THE DEVICE HEIGHT. INLET PROTECTION DEVICES SHALL BE CLEANED ON A ROUTINE BASIS SUCH THAT THE DEVICES ARE FULLY FUNCTIONAL FOR THE NEXT RAINSTORM EVENT. REMOVAL AND DISPOSAL OF THE SEDIMENT SHALL BE INCIDENTAL TO THE CONTRACT.

ROCK CONSTRUCTION ENTRANCE(S) SHALL BE CLEANED AND REFRESHED AS NECESSARY TO CONFORM TO DETAIL.

STREET SWEEPING SHALL BE USED IF VEHICLE TRACKING BMP'S ARE NOT ADEQUATE TO PREVENT SEDIMENT TRACKING ONTO STREETS.

POLLUTION PREVENTION:

ALL SOLID WASTE GENERATED BY/COLLECTED FROM THE CONSTRUCTION SITE MUST BE DEPOSITED IN A DUMPSTER.

BUILDING PRODUCTS AND LANDSCAPE MATERIALS SHALL BE PLACED UNDER COVER (I.E. PLASTIC SHEETING OR TEMPORARY ROOFS). THIS ALSO APPLIES TO PESTICIDES, FERTILIZER AND TREATMENT CHEMICALS.

NO CONSTRUCTION MATERIAL SHALL BE BURIED OR BURNED ONSITE.

ALL HAZARDOUS MATERIALS (OIL, GASOLINE, FUEL, HYDRAULIC FLUIDS, PAINT, ETC) MUST BE PROPERLY STORED IN SEALED CONTAINERS TO PREVENT SPILLS, LEAKS OR OTHER DISCHARGE. STORAGE AND DISPOSAL OF HAZARDOUS WASTE MUST BE IN COMPLIANCE WITH MINN. R. CH. 7045. CONTRACTOR SHALL ENSURE ADEQUATE SUPPLIES ARE AVAILABLE TO CLEAN UP DISCHARGED MATERIAL AND THAT AN APPROPRIATE DISPOSAL METHOD IS AVAILABLE FOR RECOVERED SPILLED MATERIALS. CONTRACTOR MUST REPORT AND CLEAN UP SPILLS IMMEDIATELY.

ALL VEHICLES LEFT ONSITE SHALL BE MONITORED FOR LEAKS TO REDUCE THE CHANCE OF CONTAMINATION.

EXTERNAL WASHING OF TRUCKS OR OTHER CONSTRUCTION VEHICLES, ENGINE DEGREASING, NOR CONCRETE WASHOUTS ARE ALLOWED ON SITE. TRUCKS ARE TO USE SELF-CONTAINED WASHOUT SYSTEM.

PORTABLE TOILETS SHALL BE SECURED FROM BEING TIPPED OR KNOCKED OVER.

THE CONTRACTOR SHALL MONITOR AND PROVIDE DUST CONTROL CORRECTION WHEN NEEDED. THIS WORK IS CONSIDERED INCIDENTAL TO THE CONTRACT.

ALL SPILLS SHALL BE CLEANED IMMEDIATELY UPON DISCOVERY. SPILLS LARGE ENOUGH TO REACH THE STORM CONVEYANCE SYSTEM SHALL BE REPORTED TO THE MPCA STATE DUTY OFFICER AT 1-800-422-0798.

FINAL STABILIZATION:

THE CONTRACTOR MUST ENSURE FINAL STABILIZATION OF THE SITE PRIOR TO SUBMITTING NOT.

SUFFICIENT TOPSOIL (6") SHALL BE PLACED ON DISTURBED AREAS FOR RE-VEGETATION. TOPSOIL SHALL BE PLACED IN A MANNER TO MINIMIZE COMPACTION (LOW GROUND PRESSURE DOZERS, TRACKED EQUIPMENT, ETC).

VEGETATIVE COVER MUST CONSIST OF A UNIFORM PERENNIAL VEGETATION WITH A DENSITY OF 70% OF ITS EXPECTED FINAL GROWTH.

PERMANENT STORMWATER TREATMENT SYSTEMS MUST BE CLEANED OF ANY ACCUMULATED SEDIMENT PRIOR TO SUBMITTING THE NOT.

ALL TEMPORARY EROSION CONTROL MEASURES AND BMP'S MUST BE REMOVED AS PART OF THE FINAL SITE STABILIZATION.

TRAINING REQUIREMENTS:

CONTRACTOR MUST BE TRAINED FOR BOTH CONSTRUCTION INSTALLER AND SITE MANAGEMENT PER REQUIREMENTS OF THE PERMIT, PART III.F. DOCUMENTATION SHALL BE ADDED TO THE SWPPP DOCUMENTS LOCATED ONSITE.

REV. NO.	DATE	BY	DESCRIPTION

DESIGNED DRAWN C.S.O. T.J.B.
CHECKED C.S.O.
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
Cara M. Schwahn Otto
License # 40433 Date: 4-8-22

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PRESTIGIOUS WOODLAND HILLS FIFTH ADDITION
BENZINGER PROPERTIES
ELK RIVER, MN

STORMWATER POLLUTION PREVENTION PLAN NARRATIVE
SHEET NO. 9 OF 13 SHEETS

PROJECT NO: 19-0318
DATE: 2-1-22