

SWPPP SUMMARY/OVERVIEW

THIS STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED TO ADDRESS THE REQUIREMENTS OF NPDES PERMIT MN R100001, PART III, SUBPART A. THIS SWPPP INCLUDES A COMBINATION OF NARRATIVE, ATTACHED FIGURE(S) AND PLAN SHEETS THAT DESCRIBE THE TEMPORARY AND PERMANENT STORM WATER MANAGEMENT PLAN FOR THE PROJECT.

CONTACTS

OWNER: CITY OF BECKER ENGINEER: SHORT ELLIOTT HENDRICKSON INC. (SEH)
CONTACT: JOE DANIELSON CONTACT: RANDY J. SABART
PHONE: 763.261.4449 PHONE: 320.229.4348
EMAIL: CITYMNT@C1.BECKER.MN.US EMAIL: RSABART@SEHINC.COM

THE GENERAL CONTRACTOR (OPERATOR) SHALL ATTACH THEIR REQUIRED CONTACT INFORMATION TO THE SWPPP AFTER THE CONTRACT FOR THE PROJECT IS AWARDED.

CONTRACTOR: _____
CONTACT: _____
PHONE: _____
EMAIL: _____

GENERAL PROJECT INFORMATION

PROJECT NAME: 2011 BECKER INDUSTRIAL PARK IMPROVEMENTS
PROJECT LOCATION: BECKER, MN
CONSTRUCTION START DATE: TBD
CONSTRUCTION END DATE: TBD

THIS PROJECT WILL CONSIST OF: STREET, STORM SEWER, WATER MAIN, SANITARY SEWER, LIFT STATION, AND SERVICE CONSTRUCTION

AMENDMENTS TO THE SWPPP

THE SWPPP WILL BE AMENDED AS NEEDED AND/OR AS REQUIRED BY PROVISIONS OF THE PERMIT. AMENDMENTS WILL BE APPROVED BY BOTH THE OWNER AND CONTRACTOR (OPERATOR) AND WILL BE ATTACHED TO THE SWPPP AS AN ADDITIONAL SHEET. THE SWPPP AND AMENDMENTS WILL BE KEPT ON SITE BY THE CONTRACTOR (OPERATOR) WHENEVER CONSTRUCTION ACTIVITY IS IN PROGRESS.

GENERAL SWPPP RESPONSIBILITIES

THE CONTRACTOR (OPERATOR) SHALL PROVIDE A KNOWLEDGEABLE AND EXPERIENCED PERSON(S) TO OVER SEE THE IMPLEMENTATION OF THE SWPPP, AND THE INSTALLATION, INSPECTION AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL BMP'S BEFORE AND DURING CONSTRUCTION.

BOTH THE OWNER AND CONTRACTOR (OPERATOR) SHALL BE RESPONSIBLE FOR THE PROPER TERMINATION AND/OR TRANSFER OF THE PERMIT.

THE OWNER WILL BE RESPONSIBLE OR WILL OTHERWISE IDENTIFY WHO WILL BE RESPONSIBLE FOR THE LONG TERM OPERATION AND MAINTENANCE OF THE PERMANENT STORM WATER MANAGEMENT SYSTEM(S)

TRAINING REQUIREMENTS

PREPARER/DESIGNER OF THE SWPPP: JON HALTER
EMPLOYER: SEH INC.
TRAINING OBTAINED: OCTOBER, 2008

THE CONTRACTOR (OPERATOR) SHALL PROVIDE AT LEAST ONE TRAINED PERSON TO OVERSEE THE IMPLEMENTATION OF THE SWPPP AND TO INSTALL, INSPECT, MAINTAIN AND REPAIR BMP'S.

TRAINING MUST BE IN CONFORMANCE WITH THE NPDES CONSTRUCTION PERMIT REQUIREMENTS. TRAINING DOCUMENTATION MUST BE KEPT ON-SITE WITH THE SWPPP AND THE TRAINED PERSON MUST BE AVAILABLE ON-SITE WITHIN 72 HOURS.

IMPLEMENTATION SEQUENCE:

THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING SEQUENCE. THE ENGINEER MAY APPROVE ADJUSTMENTS TO THE SEQUENCE IF NEEDED.

- 1. INSTALL ROCK CONSTRUCTION ENTRANCE(S)
- 2. INSTALL PERIMETER CONTROL AND STABILIZE DOWN GRADIENT BOUNDARIES
- 3. CLEAR AND GRUB STORM WATER POND AREAS
- 4. CONSTRUCT STORM WATER PONDS
- 5. CLEAR AND GRUB REMAINING SITE
- 6. COMPLETE SITE GRADING
- 7. INSTALL UTILITIES, STORM SEWER, INLET PROTECTION, CURB & GUTTER, AND PAVING.
- 8. AFTER CONSTRUCTION IS COMPLETED AND THE SITE IS STABILIZED REMOVE ACCUMULATED SEDIMENT FROM STORM WATER POND, REMOVE BMP'S, AND RE-SEED ANY AREAS DISTURBED BY THEIR REMOVAL.

INSPECTION AND MAINTENANCE

ALL INSPECTIONS, MAINTENANCE, REPAIRS, REPLACEMENTS, AND REMOVAL ARE TO BE CONSIDERED INCIDENTAL TO THE BMP BID ITEMS.

THE CONTRACTOR (OPERATOR) IS RESPONSIBLE FOR COMPLETING REQUIRED INSPECTIONS, MAINTENANCE AND OBSERVATION OF WEATHER CONDITIONS, AND RAINFALL AMOUNTS TO ENSURE COMPLIANCE WITH THE PERMIT REQUIREMENTS.

THE CONTRACTOR (OPERATOR) SHALL OBSERVE THE CONSTRUCTION SITE ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS.

THE CONTRACTOR (OPERATOR) SHALL KEEP A SUMMARY MAINTENANCE/CONSTRUCTION OBSERVATION REPORT TO BE RECORDED AFTER EACH SITE VISIT/OBSERVATION.

- RECORDS SHALL INCLUDE THE FOLLOWING:
- 1. DATE AND TIME OF INSPECTIONS;
 - 2. NAME OF PERSON CONDUCTING INSPECTION;
 - 3. FINDINGS AND RECOMMENDATIONS FOR CORRECTIVE ACTIONS IF NECESSARY;
 - 4. CORRECTIVE ACTIONS TAKEN;
 - 5. DATE AND AMOUNT OF RAINFALLS GREATER THAN 0.5 INCHES IN 24 HOURS;
 - 6. MENTION OF ANY CHANGES MADE TO THE SWPPP.
 - 7. A SITE MAP INDICATING ACTIVE CONSTRUCTION AREAS AND LAND DISTURBING ACTIVITIES.

THE CONTRACTOR (OPERATOR) SHALL SUBMIT A COPY OF THE WRITTEN INSPECTIONS MONTHLY TO THE ENGINEER.

THE CONTRACTOR (OPERATOR) MUST KEEP THE SWPPP, ALL INSPECTION REPORTS, AND AMENDMENTS ONSITE. THE CONTRACTOR (OPERATOR) SHALL DESIGNATE A SPECIFIC LOCATION TO KEEP THE RECORDS WHENEVER CONSTRUCTION ACTIVITY IS IN PROGRESS.

ALL EROSION PREVENTION AND SEDIMENTATION CONTROL BMP'S MUST BE INSPECTED TO ENSURE INTEGRITY AND EFFECTIVENESS. ALL NONFUNCTIONAL BMP'S MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WITH FUNCTIONAL BMP'S. THE CONTRACTOR (OPERATOR) MUST INVESTIGATE AND COMPLY WITH THE FOLLOWING INSPECTION AND MAINTENANCE REQUIREMENTS:

ALL SEDIMENT BARRIERS, INCLUDING SILT FENCE MUST BE REPAIRED, REPLACED, OR SUPPLEMENTED WHEN THEY BECOME NONFUNCTIONAL OR THE SEDIMENT REACHES 1/3 OF THE FENCE HEIGHT. THESE REPAIRS SHALL BE MADE WITHIN 24 HOURS OF DISCOVERY.

TEMPORARY AND PERMANENT SEDIMENT BASINS MUST BE DRAINED AND THE SEDIMENT REMOVED WHEN THE DEPTH OF SEDIMENT COLLECTED IN THE BASIN REACHES 1/2 THE STORAGE VOLUME. DRAINAGE AND REMOVAL MUST BE COMPLETED WITHIN 72 HOURS OF DISCOVERY.

SURFACE WATERS, INCLUDING DRAINAGE DITCHES AND CONVEYANCE SYSTEMS, MUST BE INSPECTED FOR EVIDENCE OF EROSION AND SEDIMENT DEPOSITION. THE OPERATOR SHALL REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS, INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. THE OPERATOR SHALL RESTABILIZE THE AREAS WHERE SEDIMENT REMOVAL RESULTS IN EXPOSED SOIL. REMOVAL AND STABILIZATION MUST TAKE PLACE WITHIN 7 DAYS OF DISCOVERY, UNLESS PRECLUDED BY LEGAL, REGULATORY, OR PHYSICAL CONSTRIANTS. THE CONTRACTOR (OPERATOR) IS RESPONSIBLE FOR CONTACTING ALL LOCAL, REGIONAL, STATE AND FEDERAL AUTHORITIES AND RECEIVING ANY APPLICABLE PERMITS, PRIOR TO CONDUCTING ANY WORK.

CONSTRUCTION SITE VEHICLE EXIT LOCATIONS SHALL BE INSPECTED DAILY FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING ONTO PAVED SURFACES. TRACKED SEDIMENT MUST BE REMOVED FROM ALL PAVED SURFACES WITHIN 24 HOURS OF DISCOVERY.

THE CONTRACTOR (OPERATOR) IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF TEMPORARY AND PERMANENT WATER QUALITY BMP'S, AS WELL AS EROSION AND SEDIMENT CONTROL BMP'S, FOR THE DURATION OF THE CONSTRUCTION WORK AT THE SITE.

IF SEDIMENT ESCAPES THE CONSTRUCTION SITE, OFF-SITE ACCUMULATIONS OF SEDIMENT MUST BE REMOVED IN A MANNOR AND AT A FREQUENCY SUFFICIENT TO MINIMIZE OFF-SITE IMPACTS.

ALL INFILTRATION AREAS MUST BE INSPECTED TO ENSURE THAT NO SEDIMENT FROM ONGOING CONSTRUCTION ACTIVITIES IS REACHING THE INFILTRATION AREAS AND THESE AREAS ARE PROTECTED FROM COMPACTION DUE TO CONSTRUCTION EQUIPMENT DRIVING ACROSS THE INFILTRATION AREA.

RELATED REVIEWS AND PERMITS:

ENVIRONMENTAL, ARCHEOLOGICAL, LOCAL, STATE, AND/OR FEDERAL REVIEWS/PERMIT:

TYPE OF REVIEW	REQUIRED ACTIONS
NA	NA

POLLUTION PREVENTION MANAGEMENT MEASURES

THE CONTRACTOR (OPERATOR) SHALL BE RESPONSIBLE FOR ALL POLLUTION PREVENTION MANAGEMENT MEASURES. THE CONTRACTOR (OPERATOR) IS RESPONSIBLE FOR INFORMING ALL VISITORS AND/OR PERSONNEL ON-SITE OF THE POLLUTION PREVENTION MANAGEMENT MEASURES. ALL POLLUTION PREVENTION MANAGEMENT MEASURES ARE TO BE CONSIDERED INCIDENTAL TO THE MOBILIZATION BID ITEM, UNLESS OTHERWISE NOTED. POLLUTION PREVENTION MANAGEMENT MEASURES INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

THE CONTRACTOR (OPERATOR) IS RESPONSIBLE FOR THE PROPER DISPOSAL, IN COMPLIANCE WITH MPCA DISPOSAL REQUIREMENTS, OF ALL SOLID WASTE AND HAZARDOUS MATERIALS ON-SITE.

CONCRETE TRUCKS SHALL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON-SITE, UNLESS DONE IN AN ENGINEERED LEAK-PROOF CONTAINMENT SYSTEM. THE ENGINEERED SYSTEM PROVIDED BY THE CONTRACTOR (OPERATOR) MUST INCLUDE SITE DRAWINGS FOR THE PROJECT FILE AND WRITTEN ASSURANCE THAT THE SYSTEM WILL WORK AS DESIGNED AND LEAVE NO DISCHARGE OF CONCRETE OR CONCRETE RESIDUE POTENTIAL TO WATERS OF THE STATE DURING A MINIMUM OF A 100-YEAR STORM EVENT. ANY LIQUID AND SOLID WASTE MUST BE DISPOSED OF PROPERLY AND IN COMPLIANCE WITH MPCA REGULATIONS. A SIGN MUST BE INSTALLED ADJACENT TO EACH WASHOUT SYSTEM TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES. THE CONCRETE WASHOUT CONTAINMENT SYSTEM AND ALL RELATED ITEMS SHALL BE CONSIDERED INCIDENTAL TO THE MOBILIZATION BID ITEM.

ALL NONHAZARDOUS WASTE MATERIALS SHALL 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 DUMPSTER SHALL BE EMPTIED AS NECESSARY TO FUNCTION AS INTENDED FOR DEBRIS COLLECTION. NO CONSTRUCTION GARBAGE OR WASTE MATERIAL SHALL BE BURIED ON-SITE.

A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR SHALL COLLECT ALL SANITARY WASTE FROM THE PORTABLE UNITS AT A RATE NECESSARY TO MAINTAIN DESIGNED FUNCTION.

ALL VEHICLES ON-SITE SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTION MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE.

FERTILIZERS SHALL BE STORED IN A COVERED SHELTER. PARTIALLY USED BAGS SHALL BE TRANSFERRED TO A SEALABLE BIN TO REDUCE THE CHANCE OF SPILLAGE.

PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS, WHICH ARE CLEARLY LABELED.

SPILL KITS SHALL BE INCLUDED WITH ALL FUELING SOURCES AND MAINTENANCE ACTIVITIES. SECONDARY CONTAINMENT MEASURES SHALL BE INSTALLED AND MAINTAINED BY THE OPERATOR.

ANY ASPHALT SUBSTANCES USED ON-SITE SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

ALL PAINT CONTAINERS AND CURING COMPOUNDS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT AND/OR CURING COMPOUNDS SHALL NOT BE DISCHARGED INTO THE STORM SEWER SYSTEM AND SHALL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURE'S INSTRUCTION.

MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEAN-UP SHALL BE KEPT IN AN ENCLOSED TRAILER OR SHED ON-SITE. EQUIPMENT SHALL BE INCLUDE, BUT NOT LIMITED TO, BROOMS, MOPS, DUST PANS, RAGS, GLOVES, GOGGLES, ABSORBENT (KITTY LITTER), OIL ABSORBENT BOOMS AND DIAPERS, AND BUCKETS.

ALL SPILLS SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY UPON DISCOVERY. SPILLS LARGE ENOUGH TO REACH THE STORM WATER CONVEYANCE SYSTEM SHALL BE REPORTED TO THE MINNESOTA DUTY OFFICER AT 1.800.422.0798.

EXTERNAL WASHING OF TRUCKS AND OTHER CONSTRUCTION VEHICLES AND ENGINE DEGREASING ARE PROHIBITED AT THE CONSTRUCTION SITE.

THE SWPPP INCLUDES THE FOLLOWING SHEETS:
GENERAL SWPPP NOTES AND SHEETS - 10-13
EROSION AND SEDIMENT CONTROL AND TURF ESTABLISHMENT SHEETS - 14-16
SWPPP DETAIL SHEETS - 17-18

2/24/2011 2:56:59 PM 8USERS F:\A\B\BECKER\02637\cadd\p01\BK02637.swp1.dgn

DRAWN: JS
DESIGNED: JMH
CHECKED: RJS

NO.	BY	DATE	REVISIONS

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.
Randy Sabart Name: RANDY J. SABART, PE
Date: 02/15/2011 Reg. No. 25508

 PHONE: 320.229.4300
1200 25TH AVE S
P.O. BOX 1717
ST. CLOUD, MN 56302-1717

2011 BECKER INDUSTRIAL
PARK IMPROVEMENTS
BECKER, MINNESOTA

SWPPP

FILE NO.
BECKR102637
10
57

PROJECT SPECIFIC INFORMATION

(NOTE: AREAS ARE ROUNDED TO THE NEAREST QUARTER ACRE)

TOTAL PROJECT AREA: 10.0
 TOTAL LAND AREA TO BE DISTURBED: 10.0
 PRE-CONSTRUCTION IMPERVIOUS AREA: 0.1
 POST-CONSTRUCTION IMPERVIOUS AREA: 2.9
 IMPERVIOUS AREA ADDED: 2.8

RECEIVING WATERS WITHIN 1 MILE FROM PROJECT BOUNDARIES:

NAME OF WATER BODY	TYPE	SPECIAL OR IMPAIRED WATER
ROADWAY DITCH	DITCH	NA

IMPAIRED AND/OR SPECIAL WATER(S) INFORMATION:

IMPAIRED RECEIVING WATER:NA
 IMPAIRMENT:NA
 TMDL:NA
 REQUIRED TMDL ACTIONS:NA
 REQUIRED ADDITIONAL BMPS:NA

SPECIAL RECEIVING WATER:NA
 NPDES CLASSIFICATION:NA
 REQUIRED ADDITIONAL BMPS:NA

THE PROJECT IS NOT LOCATED IN A KARST AREA.
 THE PROJECT DOES NOT DISCHARGE TO A CALCAREOUS FEN.

SITE SOIL INFORMATION:

SOIL INFORMATION PROVIDED IS OBTAINED FROM THE USGS SOIL SURVEY INFORMATION AND IS FOR NPDES PERMIT INFORMATION ONLY. THE OPERATOR SHALL NOT RELY ON THIS SOIL INFORMATION

SOIL NAME	HYDROLOGIC SOIL CLASSIFICATION	ID#
HUBBARD LOAMY SAND	A	HuA
HUBBARD LOAMY SAND	A	HuB

PROPOSED STORM WATER TREATMENT SUMMARY:

TYPE OF STORM WATER MANAGEMENT SYSTEM	WQV TREATED (AC-FT)
SEDIMENTATION POND	0.12

TOTAL WQV TREATED:0.12
 TOTAL WQV INFILTRATED:0.00

STORM WATER REQUIRED TREATMENT QUANTITIES:

NOTE:
 THERE ARE NO KNOWN IMPAIRED OR SPECIAL WATERS WITHIN 1 MILE OF THE PROJECT SITE THAT RECEIVE STORM WATER RUNOFF FROM THIS SITE

WATER QUALITY VOLUME (WQV):
 REQUIRED TREATED WQV:
 ADDED IMPERVIOUS AREA * 0.5 INCH = WQV
 2.8 (AC) * 0.5 INCH * 1/12 FT/IN = 0.12

EROSION PREVENTION MEASURES AND TIMING

THE CONTRACTOR (OPERATOR) IS RESPONSIBLE FOR ALL EROSION PREVENTION MEASURES FOR THE PROJECT. EROSION PREVENTION MEASURES INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

THE CONTRACTOR (OPERATOR) SHALL PLAN AND IMPLEMENT APPROPRIATE CONSTRUCTION PRACTICES AND CONSTRUCTION PHASING TO MINIMIZE EROSION AND RETAIN VEGETATION WHENEVER POSSIBLE.

ALL AREAS NOT TO BE DISTURBED SHALL BE DELINEATED WITH FLAGS, STAKES, SIGNS, OR OTHER MEANS NECESSARY TO PROTECT THESE AREAS BEFORE CONSTRUCTION BEGINS ON THE SITE.

ALL DRAINAGE DITCHES AND/OR SWALES SHALL HAVE TEMPORARY OR PERMANENT STABILIZATION WITHIN 24 HOURS OF CONNECTING TO A SURFACE WATER OR 24 HOURS AFTER CONSTRUCTION ACTIVITY IN THE DITCH/SWALE HAS TEMPORARILY OR PERMANENTLY CEASED.

ALL PIPE OUTLETS SHALL HAVE TEMPORARY OR PERMANENT ENERGY DISSIPATION WITH 24 HOURS OF CONNECTING TO A SURFACE WATER.

ALL EXPOSED SOILS SHALL BE STABILIZED AS SOON AS POSSIBLE TO LIMIT SOIL EROSION. IN NO CASE SHALL UN-WORKED AREAS, INCLUDING STOCK PILES, HAVE EXPOSED SOILS FOR MORE THAN 14 DAYS WITH PROVIDING TEMPORARY OR PERMANENT STABILIZATION. (7 DAYS FOR PROJECTS WITH A RECEIVING WATER THAT IS IMPAIRED OR SPECIAL)

SEDIMENT CONTROL MEASURES AND TIMING

THE OPERATOR (CONTRACTOR) IS RESPONSIBLE FOR ALL SEDIMENT CONTROL MEASURES FOR THE PROJECT. SEDIMENT CONTROL MEASURES INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

SEDIMENT CONTROL MEASURES SHALL BE ESTABLISHED ON ALL DOWN GRADIENT PERIMETERS BEFORE ANY UPGRADIENT LAND DISTURBING ACTIVITIES BEGIN. THESE MEASURES SHALL REMAIN IN PLACE UNTIL FINAL STABILIZATION HAS BEEN ESTABLISHED.

ON SLOPES WITH 3:1 OR STEEPER GRADES, THERE SHALL BE NO UNBROKEN SLOPE LENGTH GREATER THAN 75 FEET.

ALL STORM DRAIN INLETS AND CULVERT INLETS SHALL BE PROTECTED BY AN APPROPRIATE BMP DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAS BEEN STABILIZED. INLET AND CULVERT PROTECTION SHALL CONFORM TO THE 2005 MNDOT SPECIFICATIONS 2573 AND 3891.

STOCK PILES SHALL BE PROVIDED WITH AN EFFECTIVE SEDIMENT PERIMETER CONTROL AND SHALL NOT BE PLACED IN ANY TYPE OF SURFACE WATER.

VEHICLE TRACKING SHALL BE MINIMIZED WITH EFFECTIVE BMPS. WHERE THE BMPS FAIL TO PREVENT SEDIMENT FROM TRACKING ONTO STREETS THE CONTRACTOR SHALL CONDUCT STREET SWEEPING TO REMOVE ALL TRACKED SEDIMENT.

TEMPORARY SEDIMENT BASINS

TEMPORARY SEDIMENT BASINS ARE REQUIRED WHERE TEN (10) OR MORE ACRES DRAIN TO A COMMON LOCATION.

(5 OR MORE ACRES FOR PROJECTS THAT DISCHARGE TO IMPAIRED AND/OR SPECIAL WATERS)

THE OPERATOR SHALL INSTALL TEMPORARY SEDIMENT BASIN AS INDICATED IN THE PLANS OR AS REQUIRED BY THE NPDES CONSTRUCTION PERMIT.

TEMPORARY SEDIMENT BASINS SHALL BE CONSTRUCTED AND MADE OPERATIONAL CONCURRENT WITH THE START OF SOIL DISTURBANCE THAT IS UPGRADIENT AND CONTRIBUTES RUNOFF TO THE AREA

TEMPORARY SEDIMENT BASINS SHALL BE CONSTRUCTED TO PREVENT SHORT-CIRCUITING OF STORM WATER TREATMENT AND PREVENT DISCHARGE OF FLOATING DEBRIS.

TEMPORARY SEDIMENT BASINS SHALL BE PROVIDED WITH ENERGY DISSIPATION TO PREVENT SOIL EROSION.

DEWATERING AND BASIN DRAINING ACTIVITIES

THE OPERATOR IS RESPONSIBLE FOR ADHERING TO ALL DEWATERING AND SURFACE DRAINAGE REGULATIONS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

WHENEVER POSSIBLE WATER FROM DEWATERING ACTIVITIES SHALL DISCHARGE TO A TEMPORARY AND/OR PERMANENT SEDIMENT BASIN.

IF WATER CANNOT BE DISCHARGED TO A SEDIMENTATION BASIN, IT SHALL BE TREATED WITH THE OTHER APPROPRIATE BMPS, TO EFFECTIVELY REMOVE SEDIMENT.

ALL DISCHARGE POINTS SHALL BE PROTECTED FROM EROSION AND SCOUR.

DISCHARGE WATER SHALL BE DISPERSED OVER AN EFFECTIVE ENERGY DISSIPATION MEASURE.

ALL WATER FROM DEWATERING SHALL BE DISCHARGED IN A MANNER THAN DOES NOT CAUSE NUISANCE CONDITIONS, EROSION, OR INUNDATION OF WETLANDS.

FINAL STABILIZATION

THE OPERATOR IS RESPONSIBLE FOR ENSUING FINAL STABILIZATION OF THE SITE. FINAL STABILIZATION INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING:

ALL SOIL DISTURBING ACTIVITIES HAVE BEEN COMPLETED.

ALL EXPOSED SOILS HAVE BEEN UNIFORMLY STABILIZED WITH AT LEAST 70% VEGETATION COVERAGE.

ALL DRAINAGE DITCHES, PONDS AND ALL STORM WATER CONVEYANCE SYSTEMS HAVE BEEN CLEARED OF SEDIMENT AND STABILIZED TO PRECLUDE EROSION.

ALL TEMPORARY BMPS HAVE BEEN REMOVED AND PROPERLY DISPOSED OF.

FINAL STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH MNDOT 2005 SPECIFICATION 2575.

P:\A\B\BECKER\102637\cadd\p01\BK102637.swp2.dgn
 2/24/2011 2:57:02 PM JUSERS

DRAWN: JS				
DESIGNED: JMH				
CHECKED: RJS				
NO.	BY	DATE	REVISIONS	

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.

Randy Sabart
 Name: RANDY J. SABART, PE
 Date: 02/15/2011 Reg. No. 25508

SEH PHONE: 320.229.4300
 1200 25TH AVE S
 P.O. BOX 1717
 ST. CLOUD, MN 56302-1717

2011 BECKER INDUSTRIAL
 PARK IMPROVEMENTS
 BECKER, MINNESOTA

SWPPP

FILE NO. 11
 BECKR102637 57

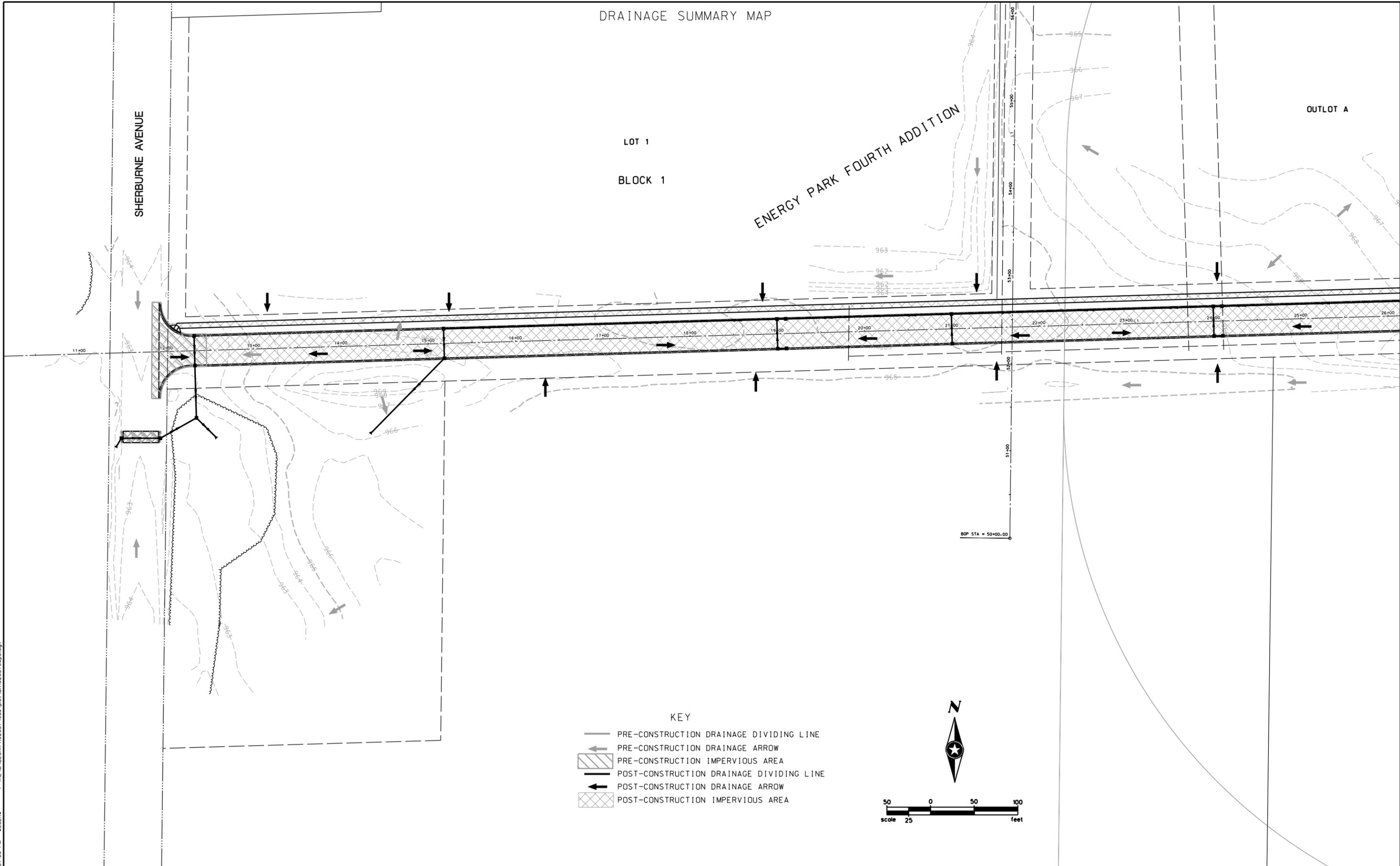
DRAINAGE SUMMARY MAP

SHERBURNE AVENUE

LOT 1
BLOCK 1

ENERGY PARK FOURTH ADDITION

OUTLOT A



KEY

- PRE-CONSTRUCTION DRAINAGE DIVIDING LINE
- PRE-CONSTRUCTION DRAINAGE ARROW
- PRE-CONSTRUCTION IMPERVIOUS AREA
- POST-CONSTRUCTION DRAINAGE DIVIDING LINE
- POST-CONSTRUCTION DRAINAGE ARROW
- POST-CONSTRUCTION IMPERVIOUS AREA



2/24/2011 2:57:06 PM \\USERS\B\BECKER\102637\cadd\p01\BK102637.swp3.dgn

DRAWN: JS
DESIGNED: JMH
CHECKED: RJS

NO.	BY	DATE	REVISIONS

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.
Randy Sabart
Name: RANDY J. SABART, PE
Date: 02/15/2011 Reg. No. 25508

SEH PHONE: 320.229.4300
1200 25TH AVE S
P.O. BOX 1717
ST. CLOUD, MN 56302-1717

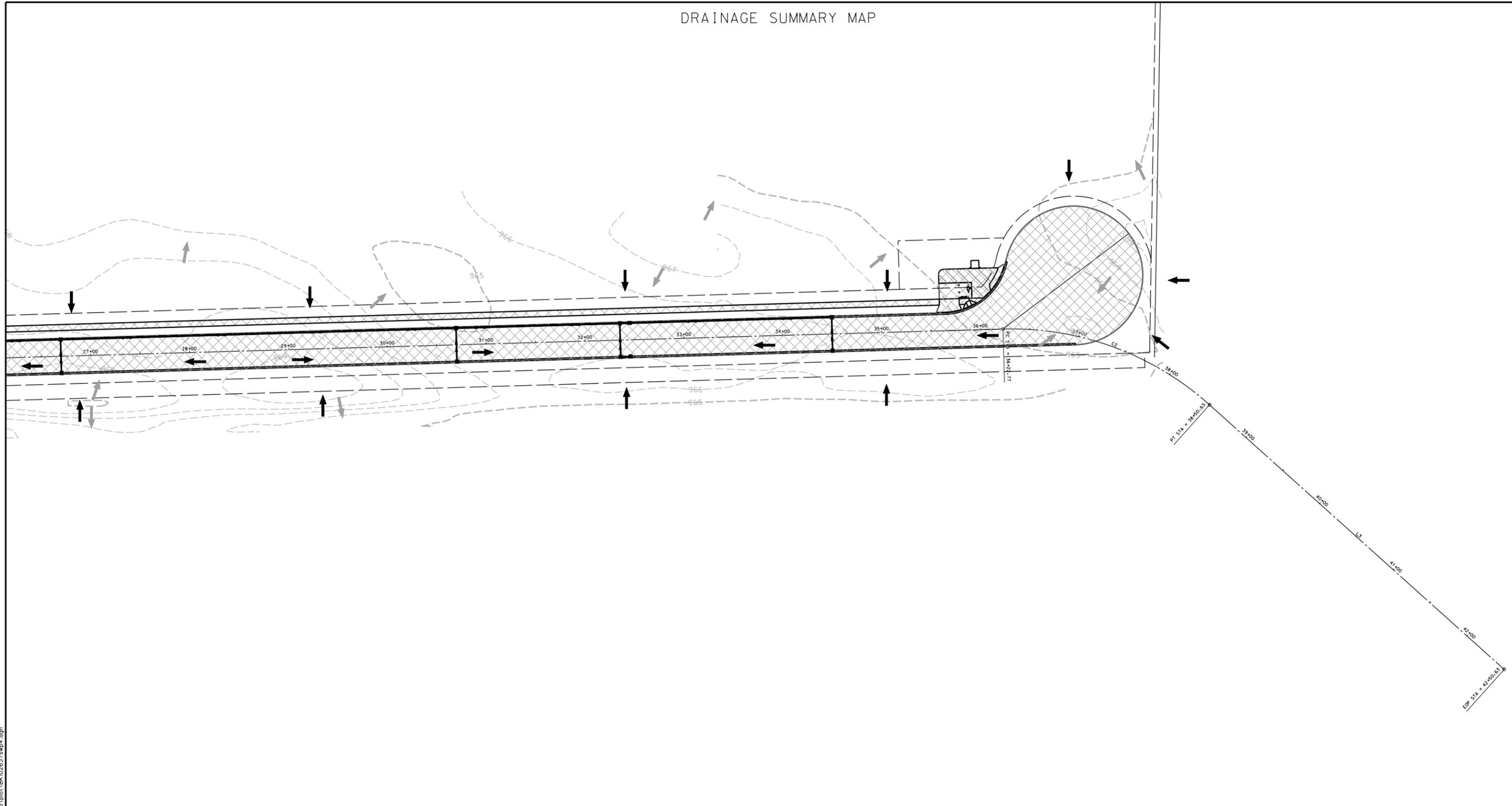
2011 BECKER INDUSTRIAL
PARK IMPROVEMENTS
BECKER, MINNESOTA

SWPPP

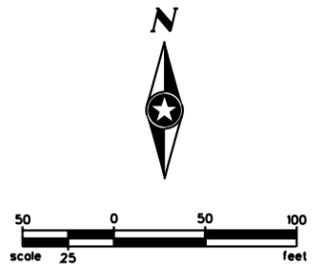
FILE NO.
BECKR102637

12
57

DRAINAGE SUMMARY MAP



- KEY
- PRE-CONSTRUCTION DRAINAGE DIVIDING LINE
 - ← PRE-CONSTRUCTION DRAINAGE ARROW
 - ▨ PRE-CONSTRUCTION IMPERVIOUS AREA
 - POST-CONSTRUCTION DRAINAGE DIVIDING LINE
 - ← POST-CONSTRUCTION DRAINAGE ARROW
 - ▩ POST-CONSTRUCTION IMPERVIOUS AREA



2/24/2011 2:57:08 PM S:\USERS\B\BECKER\102637\cadd\p01\BK102637.swp4.dgn

DRAWN: JS
 DESIGNED: JMH
 CHECKED: RJS

NO.	BY	DATE	REVISIONS

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.

Randy Sabart
 Name: RANDY J. SABART, PE
 Date: 02/15/2011 Reg. No. 25508

SEH PHONE: 320.229.4300
 1200 25TH AVE S
 P.O. BOX 1717
 ST. CLOUD, MN 56302-1717

2011 BECKER INDUSTRIAL
 PARK IMPROVEMENTS
 BECKER, MINNESOTA

SWPPP

FILE NO.
 BECKR102637

13
 57