

CONSTRUCTION SEQUENCING AND
INSPECTION OF EROSION AND
SEDIMENT CONTROL PRACTICES FOR
STORMWATER MANAGEMENT SYSTEMS

- A. OBTAIN PERMITS FOR SITE WORK FROM ALL GOVERNING AUTHORITIES WITH JURISDICTION IN THIS CONSTRUCTION AREA.
- B. INSTALL EROSION CONTROL AND TREE PROTECTION ALONG PERIMETER OF SITE. INSTALL EROSION CONTROL INSERTS AT ALL CATCHBASINS, CONSTRUCT ROCK CONSTRUCTION ENTRANCE AND SET UP CONCRETE WASH AREA. SEE EROSION CONTROL NOTES FOR FURTHER INSTRUCTION.
- C. PROCEED WITH SITE DEMOLITION, GRADING AND CONSTRUCTION.
- D. MAINTAIN EROSION CONTROL BMP'S AND CONTROL RUNOFF REQUIREMENTS AS OUTLINED ON DRAWING AND SPECIFICATIONS.
- E. ALL SITE WORK SHOULD BE COMPLETE PRIOR TO WORK ON THE INFILTRATION AREAS BEING STARTED TO THE EXTENT POSSIBLE. IF CONSTRUCTION OF THESE AREAS NEEDS TO OCCUR PRIOR TO FINAL SITE STABILIZATION, THEN THE CONSTRUCTED AREA MUST BE PROTECTED AND CONTRIBUTING FLOWS NEED TO BE FILTERED TO PREVENT CLOGGING OF THE SYSTEM OR COMPACTION OF THE INFILTRATION AREA. THE STORMWATER MANAGEMENT SYSTEMS NEED TO BE PROTECTED FROM EROSION, SEDIMENT AND CONSTRUCTION VEHICULAR AND FOOT TRAFFIC AND EQUIPMENT LAYDOWN. A FENCE WILL BE REQUIRED AROUND ITS PERIMETER TO KEEP THE AREA OF THE STORMWATER MANAGEMENT SYSTEM PROTECTED.
- F. SHOP DRAWINGS OF ALL SYSTEMS NEED TO BE APPROVED PRIOR TO CONSTRUCTION. ALL SOIL MATERIAL TESTING SHALL BE DONE PRIOR TO INSTALLATION TO ENSURE SOIL MIXTURE IS ADEQUATE FOR INFILTRATION. TESTS SHALL BE SUBMITTED TO ENGINEER AND APPROVED PRIOR TO INSTALLATION. SPECIFICATIONS INDICATE MATERIALS REQUIRED FOR EACH SYSTEM.
- G. NOTIFY CIVIL ENGINEER AND SAUK RIVER WATERSHED DISTRICT OF WORK BEING DONE ON STORMWATER SYSTEMS AND THE SCHEDULE OF CONSTRUCTION. ALLOW A MINIMUM OF FIVE WORKING DAYS FOR NOTIFICATION, SO ENGINEER CAN CONDUCT SITE MEETING TO DISCUSS THE INTENT OF THE CONSTRUCTION OBSERVATION. MEETING CAN BE SCHEDULED ACCORDINGLY. SITE MEETING TO REVIEW THE INTENT OF THE DESIGN AND THE CONSTRUCTION OF THE INFILTRATION SYSTEM NEEDS TO OCCUR PRIOR TO STARTING CONSTRUCTION ON THE SYSTEM.
- H. ALL SOIL MATERIAL TESTING SHALL BE DONE PRIOR TO INSTALLATION OF THE INFILTRATION SYSTEM TO ENSURE SUBGRADE SOILS MEET MINIMUM INFILTRATION RATE OF 2.00 INCHES PER HOUR.
- I. REMOVE ANY CLAY MATERIALS BELOW BOTTOM OF INFILTRATION AREAS. CONTRACTOR SHALL HAVE GEOTECHNICAL ENGINEER ON SITE TO VERIFY CLAY MATERIAL WITHIN INFILTRATION AREAS HAVE BEEN REMOVED. BACKFILL WITH CLEAN SELECT GRANULAR BACKFILL PER MNDOT SPECIFICATION 3149.2 B2 MODIFIED SO LESS THAN 5% PASSES THE #200 SIEVE. CONTRACTOR TO SUBMIT MATERIAL TESTING REPORTS TO ENGINEER PRIOR TO PIPE AND ROCK INSTALLATION.
- J. CONTRACTOR TO COORDINATE GEOTECHNICAL ENGINEER TO CONDUCT DOUBLE RING INFILTRATION TO MEASURE SUBGRADE INFILTRATION RATE TO ENSURE SUBGRADE MEETS MINIMUM INFILTRATION RATE OF 2.00 INCHES PER HOUR. SEE NOTE #H.
- K. SCARIFY 12" OF THE EXISTING SUBGRADE WITHIN INFILTRATION AREAS TO PROMOTE INFILTRATION OF STORMWATER INTO UNDERLYING SUBGRADE SOILS.
- L. MAINTAIN EROSION AND SEDIMENT CONTROL ON CONTRIBUTING AREAS TO AVOID CLOGGING OF SYSTEM. INSTALL FENCE AROUND AREA FOR PROTECTION OF SYSTEM DURING CONSTRUCTION. SEE NOTE E.
- M. CONSTRUCT STORMWATER SYSTEMS PER DRAWINGS AND SPECIFICATIONS.
- N. COMPLETE CONSTRUCTION OF PARKING AND SIDEWALKS AFTER STORMWATER SYSTEM IS INSTALLED. AFTER PAVEMENT IS INSTALLED, VERIFY THAT INFILTRATION SYSTEMS ARE CLEAR AND FULLY FUNCTIONAL. VACUUM AND CLEAN SYSTEMS SO THEY ARE FULLY FUNCTIONAL AT PROJECT CLOSEOUT. PROVIDE INFORMATION TO CIVIL ENGINEER THAT SYSTEM WAS VACUUMED AND CLEANED.
- O. INSTALL LANDSCAPING AND PLANTING MATERIALS PER LANDSCAPE DRAWINGS AND SPECIFICATIONS.
- P. REMOVE ALL TEMPORARY EROSION CONTROL BMP'S AFTER PAVING AND INFILTRATION AREAS ARE COMPLETE AND AFTER TURF HAS BEEN ESTABLISHED.
- Q. CONTRACTOR SHALL TAKE PHOTOGRAPHS AND MEASUREMENTS OF ALL STORMWATER MANAGEMENT SYSTEMS THROUGHOUT CONSTRUCTION. DOCUMENTATION OF CONSTRUCTION SHALL BE SUBMITTED TO THE CIVIL ENGINEER AT THE CLOSEOUT OF THE PROJECT. CLOSEOUT DOCUMENTATION SHALL INCLUDE PHOTOGRAPHS AND MEASUREMENTS OF SYSTEM DURING CONSTRUCTION, TESTING REPORTS AND OBSERVATIONS AND REDLINE DRAWINGS OF ANY FIELD MODIFICATIONS MADE DURING CONSTRUCTION.
- R. A LETTER WRITTEN ON COMPANY LETTERHEAD THAT THE STORMWATER MANAGEMENT PRACTICES HAVE BEEN BUILT PER THE CIVIL PLANS, OR PER REDLINE FIELD DRAWINGS, SHALL BE SUBMITTED TO THE CIVIL ENGINEER AT THE CLOSEOUT OF THE PROJECT.
- S. THE CONTRACTOR SHALL SUBMIT AN AS-BUILT SURVEY OF THE COMPLETED SITE PREPARED AND SIGNED BY A LICENSED SURVEYOR TO THE CIVIL ENGINEER AT THE END OF THE PROJECT. AS-BUILT SURVEY SHALL INCLUDE ENOUGH INFORMATION TO VERIFY THE CONSTRUCTED TOPOGRAPHY, UTILITY AND SITE ELEMENTS. COORDINATE WITH OWNER AND CIVIL ENGINEER FOR SCHEDULE FOR WHEN THIS SHALL BE COMPLETED.
- T. REMOVE ALL TEMPORARY EROSION CONTROL BMP'S AFTER PAVING AND INFILTRATION AREAS ARE COMPLETE AND AFTER TURF HAS BEEN ESTABLISHED.

GENERAL NOTES

1. ALL EXISTING INFORMATION TAKEN FROM PRELIMINARY SURVEY BY DESIGN TREE RECEIVED FEBRUARY 5, 2014. OTHER BACKGROUND INFORMATION INSERTED INTO PRELIMINARY SURVEY USING MAPS OF THE EXISTING SITE UTILITIES, REHABILITATION CENTER AND COTTAGE 2 PRELIMINARY DRAWINGS.
2. A GEOTECHNICAL EXPLORATION AND ENGINEERING REVIEW HAS NOT YET BEEN COMPLETED FOR THIS PROJECT AND IS UNDERWAY.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING LOCATIONS OF EXISTING UTILITIES, AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION.
4. ALL AREAS DISTURBED BY CONSTRUCTION WHICH ARE OUTSIDE THE LIMITS OF PAVING ARE TO BE RESTORED AND REVEGETATED.
5. ALL UTILITY DEMOLITION AND/OR ABANDONMENT TO BE PERFORMED IN ACCORDANCE WITH VETERANS AFFAIRS AND STATE OF MINNESOTA REGULATIONS AND STANDARDS.
6. EXISTING UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS. CONTRACTOR TO FIELD VERIFY THE LOCATION OF ALL EXISTING UTILITIES WHICH MAY INCLUDE BUT IS NOT LIMITED TO: ELECTRIC, TELEPHONE, GAS, CABLE TV, COMPUTER CABLE, FIBER OPTIC CABLE, SANITARY SEWER, STORM SEWER, STEAM, CONDENSATE, ELECTRICAL DUCT, BANK AND WATER MAIN. CONTRACTOR TO CONTACT COOPER ONE-CALL BEFORE EXCAVATING. VA WILL DO LOCATES FOR PRIVATE UTILITIES.
7. ALL EXISTING UTILITIES AND OTHER IMPROVEMENTS ARE TO REMAIN UNLESS NOTED OTHERWISE.
8. CONTRACTOR TO PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS, LANDSCAPING, STRUCTURES AND UTILITIES THAT ARE TO REMAIN. CONTRACTOR TO REPAIR ANY DAMAGE AT OWN EXPENSE.
9. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND ELEVATION OF EXISTING STORM AND SANITARY SEWER PRIOR TO THE START OF CONSTRUCTION.
10. PROVIDE THE FOLLOWING MINIMUM COVER OVER THE TOP OF PIPE AS FOLLOWS:
- A. 8" OVER WATER MAIN
- B. 6" OVER SANITARY SEWER
- C. 2' OVER STORM SEWER
- D. 2' OVER STORMWATER MANAGEMENT SYSTEM
11. ALL WORK TO CONFORM WITH VETERANS AFFAIRS AND STATE OF MINNESOTA STANDARDS AND REGULATIONS.
12. ALL EXCAVATIONS MUST COMPLY WITH THE REQUIREMENTS OF OSHA 29 CFR, PART 1926, SUBPART D "EXCAVATIONS AND TRENCHES". THIS DOCUMENT STATES THAT EXCAVATION SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
13. CATCH BASINS AND MANHOLES ARE SHOWN ON PLAN LARGER THAN ACTUAL SIZE. COORDINATE LOCATION OF MANHOLE COVER AND CASTING SO THAT IT IS PROPERLY LOCATED AT THE BACK OF CURB LINE FOR THE CURB INLETS OR CENTERED IN THE AREA AS SHOWN ON THE PLAN FOR THE AREA DRAINS AND MANHOLE COVERS.
14. PROVIDE BARRICADES AT STREETS AND SIDEWALKS TO PROTECT PATRONS FROM ENTERING TEMPORARY CONSTRUCTION AREAS REQUIREMENTS.
15. SITE UTILITY CONTRACTOR TO FURNISH AND INSTALL ALL WATER MAIN, SANITARY SEWER AND STORM SEWER FACILITIES AND APPURTENANCES TO WITHIN FIVE FEET OUTSIDE THE BUILDING. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXACT LOCATION AND DEPTH OF CONNECTION WITHIN BUILDING.
16. CONTRACTOR SHALL COORDINATE WITH ARCHITECT'S DRAWINGS TO VERIFY LOCATION, SIZE AND QUANTITY OF ALL ROOF DRAINS AND UTILITY CONNECTIONS. LIMITS OF PROPOSED SITE PLANNING FACILITIES SHALL BE FIVE FEET FROM EDGE OF BUILDING UNLESS OTHERWISE NOTED.
17. CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS PRIOR TO STARTING CONSTRUCTION.
18. SEE LANDSCAPE PLANS FOR LANDSCAPING AND CONCRETE JOINING. SEE ELECTRICAL PLANS FOR SITE LIGHTING.
19. ALL COMPLETED UNDERGROUND WORK IS SUBJECT TO INSPECTION AT A REASONABLE TIME BEFORE BACKFILLING.
20. ALL MATERIALS FOR PROPOSED CONSTRUCTION OR REPAIR OF EXISTING FACILITIES SHALL BE NEW PRODUCTS DIRECT FROM THE FACTORY AND FREE FROM DEFECTS.
21. WHEN WORKING AROUND EXISTING TELEPHONE OR ELECTRICAL POLES, THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
22. WHEN WORKING AROUND EXISTING UTILITIES THAT BECOME EXPOSED, THE CONTRACTOR SHALL PROVIDE SUFFICIENT SUPPORT TO PREVENT EXCESSIVE STRESS ON THE PIPING. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.
23. WASTE MATERIALS INCLUDING PAVEMENT REMOVED DURING CONSTRUCTION, WASTE PIPING AND SUPPLIES, CONSTRUCTION DEBRIS AND EXCESS EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR.
24. MAXIMUM CROSS-SLOPES FOR SIDEWALKS AND ADA ACCESS ROUTES SHALL NOT EXCEED 2.00%. MAXIMUM SLOPES FOR HANDICAP ACCESS AISLES SHALL NOT EXCEED 5.00% ALONG THE PATH OF TRAVEL.
25. CONTRACTOR SHALL NOT BLOCK DRAINAGE FROM OR DIRECT EXCESS DRAINAGE ONTO ADJACENT PROPERTY OR CONSTRUCTION AREAS.
26. ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE OWNING AUTHORITY. ALL CONSTRUCTION STORM RUNOFF SHALL COMPLY WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) REQUIREMENTS.
27. SANITARY SEWER PIPE AND FITTINGS TO BE POLYVINYL CHLORIDE (PVC), SDR 26 MINIMUM AND COMPLY WITH ASTM D3034 AND F879. JOINTS TO BE SOLVENT CEMENT OR FLEXIBLE WATERTIGHT.
28. STORM SEWER PIPE TO BE REINFORCED CONCRETE PIPE (RCP), ASTM C76, CLASS 5, TYPE A, WITH GASKETED JOINTS, POLYVINYL CHLORIDE (PVC) SDR 26 MINIMUM COMPLYING WITH ASTM D3034 AND F879 WITH SOLVENT CEMENT OR FLEXIBLE WATERTIGHT JOINTS, OR INJECTION MOLDED POLYPROPYLENE CHAMBERS PER SPECIFICATIONS. DRAIN TILE PIPE TO BE HIGH-DENSITY POLYETHYLENE CORRUGATED PIPE WITH SOLVENT CEMENT OR FLEXIBLE WATERTIGHT JOINTS PER SPECIFICATIONS. SEE DRAWINGS FOR PIPE TYPE SHOWN FOR EACH SYSTEM.
29. WATER MAIN TO BE DUCTILE IRON PIPE (DIP) THICKNESS CLASS 52 FOR 8" DIP AND THICKNESS CLASS 53 FOR 3", 4" AND 6" DIP.
30. MAINTAIN 2 FEET VERTICAL SEPARATION BETWEEN WATER AND SEWER PIPES OR A 12-INCH SEPARATION WITH 4-INCH HIGH DENSITY INSULATION TYPICAL WATERMAIN OFFSETS.
31. CARE MUST BE TAKEN DURING CONSTRUCTION AND EXCAVATION TO PROTECT ANY SURVEY MONUMENTS AND/OR PROPERTY IRONS.
32. ALL STUMPS FROM TREES REMOVED WITHIN PROJECT LIMITS SHALL BE GROUND AND REMOVED IN THEIR ENTIRETY.
33. ALL PAVEMENT MARKINGS WITHIN EXISTING PAVEMENT AREAS TO BE RESTORED TO MATCH EXISTING UNLESS NOTED OTHERWISE.
34. DRAWINGS DO NOT INDICATE AREAS OF TEMPORARY SUPPORT SYSTEMS. THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS AND WILL HAVE TOTAL CONTROL OVER THE TYPES AND DESIGN OF ALL SHORING, SHEETING, BRACING, ANCHORAGES, EXCAVATION SUPPORT WALLS, DIRECTIONAL BORING, AUGER JACKING, SOIL STABILIZATION AND OTHER METHODS OF PROTECTING EXISTING IMPROVEMENTS. SEE SPECIFICATIONS FOR SUBMITTAL REQUIREMENTS.
35. STORAGE AND PROTECTION OF EXISTING SITE FEATURES WHICH NEED TO BE REMOVED AND REPLACED FOR CONSTRUCTION OF PROJECT ARE THE RESPONSIBILITY OF THE CONTRACTOR. STORAGE SHALL BE WITHIN THE LIMITS OF STAGING AREA. CONTRACTOR SHALL PREVENT DAMAGE OR THEFT OF THESE ITEMS AND TO REPLACE AT OWN EXPENSE.
36. CONTRACTOR TO RECORD EXISTING CONDITIONS AS NEEDED (PHOTOGRAPHS, VIDEO PHOTOGRAPHY, FIELD SURVEYING, ETC.) TO ENABLE RECONSTRUCTION TO MATCH EXISTING CONDITIONS AS REQUIRED. CONTRACTOR TO DOCUMENT EXISTING CONDITIONS SO THAT RECONSTRUCTED AREAS WILL HAVE POSITIVE DRAINAGE SIMILAR TO EXISTING.
37. WHERE DEMOLITION, EXCAVATION, UNDERPINNING, PILE DRIVING, COMPACTING OR SIMILAR WORK IS TO BE PERFORMED ADJACENT TO OR IN THE IMMEDIATE VICINITY OF EXISTING STRUCTURES, THE CONTRACTOR WILL PROVIDE BUILDING SURVEYS AND SEISMIC MONITORING. CONTRACTOR IS RESPONSIBLE FOR MONITORING OF BUILDING AND KEEPING OWNER INFORMED OF OPERATIONS THAT MAY IMPACT STRUCTURES.
38. THE CONTRACTOR SHALL PROVIDE A CONTINUOUS, ACCESSIBLE AND SAFE PEDESTRIAN WALKWAY THAT MEETS ADA AND MN MUTCD STANDARDS IF WORKING IN A SIDEWALK AREA, AND TRAFFIC CONTROL PER MN MUTCD REQUIREMENTS.
39. VA WILL PROVIDE LOCATES FOR PRIVATE UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR TO COORDINATE WITH VA.
40. SITE DEMOLITION PLAN C-200 BACKGROUND UTILIZES THE SURVEY AND INDICATES AREAS OF DEMOLITION OF EXISTING VISITOR PARKING LOT LOCATED NORTH OF THE PROPOSED COTTAGE 2 BUILDING. SUBSEQUENT PLAN SHEETS SHOW THE LAYOUT OF THE FUTURE VISITOR PARKING LOT PROJECT. IF FUTURE PARKING LOT IS BUILT PRIOR TO STARTING CONSTRUCTION ON COTTAGE 2, THE DEMOLITION OF THE EXISTING VISITOR PARKING LOT MAY ALREADY BE COMPLETE. IF COTTAGE 2 BEGINS CONSTRUCTION PRIOR TO THE VISITOR PARKING LOT PROJECT, PARTIAL DEMOLITION OF THE EXISTING LOT WILL BE REQUIRED AS NOTED ON SHEET C-200 BUT THE AREA OF FUTURE LOT CAN BE TEMPORARILY SEEDED AND PAVEMENT WILL NOT BE REPLACED.
41. CONSTRUCTION LIMITS ARE SHOWN ON THE ATTACHED PLANS FOR THE CONTRACTOR'S USE. THE CONSTRUCTION LIMITS LABELED "PROJECT DURATION" ARE THE LIMITS OF CONSTRUCTION AVAILABLE TO THE CONTRACTOR FOR THE DURATION OF THE PROJECT FOR USE FOR CONSTRUCTION, DELIVERIES, MATERIAL LAYDOWN, ETC. THE LIMITS LABELED OTHERWISE ARE FOR USE WHEN INSTALLING UTILITIES OR PAVEMENT OUTSIDE OF THE MAIN PROJECT AREA. THESE LIMITS ARE TEMPORARY AND WILL BE UTILIZED WHILE WORKING ON THIS PART OF THE PROJECT. PROPER EROSION AND SEDIMENT CONTROL AND SITE FENCING WILL NEED TO BE MAINTAINED AROUND BOTH DURATION AND TEMPORARY CONSTRUCTION LIMITS BUT SHALL BE REMOVED FROM THE TEMPORARY AREAS ONCE WORK THERE IS COMPLETE AND THE SITE IS RE-ESTABLISHED. CONTRACTOR TO WORK WITH OWNER REGARDING THESE CONSTRUCTION LIMITS.

EROSION CONTROL NOTES

1. INSTALL PERIMETER EROSION CONTROL AT THE LOCATIONS SHOWN ON THE PLANS PRIOR TO BEGINNING CONSTRUCTION. (HAY BALES ARE NOT AN ACCEPTABLE PERIMETER CONTROL.)
2. BEFORE BEGINNING CONSTRUCTION, INSTALL A TEMPORARY ROCK CONSTRUCTION ENTRANCE AT EACH POINT WHERE VEHICLES EXIT THE CONSTRUCTION SITE. USE 2 INCH OR GREATER DIAMETER ROCK IN A LAYER AT LEAST 12 INCHES THICK ACROSS THE ENTIRE WIDTH OF THE ENTRANCE. EXTEND THE ROCK ENTRANCE AT LEAST 50 FEET INTO THE CONSTRUCTION ZONE. USE A GEOTEXTILE FABRIC BENEATH THE AGGREGATE IN ORDER TO PREVENT MIGRATION OF SOIL INTO THE ROCK FROM BELOW. SEE DETAILS.
3. REMOVE ALL SOILS AND SEDIMENTS TRACKED OR OTHERWISE DEPOSITED ONTO PUBLIC AND PRIVATE PAVEMENT AREAS. REMOVAL SHALL BE ON A DAILY BASIS WHEN TRACKING OCCURS. SWEEPING MAY BE ORDERED BY AT ANY TIME IF CONDITIONS WARRANT. SWEEPING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION AND DONE IN A MANNER TO PREVENT DUST BEING BLOWN TO ADJACENT PROPERTIES.
4. INSTALL INLET PROTECTION AT ALL PUBLIC AND PRIVATE CATCH BASIN INLETS, WHICH RECEIVE RUNOFF FROM THE DISTURBED AREAS. CATCH BASIN INSERTS ARE REQUIRED IN UNDISTURBED AREAS THAT RECEIVE RUNOFF FROM DISTURBED AREAS. NOTE: HAY BALES OR FILTER FABRIC WRAPPERS, THE GRATES ARE NOT EFFECTIVE OR AN ACCEPTABLE FORM OF INLET PROTECTION.
5. LOCATE SOIL OR DIRT STOCKPILES NO LESS THAN 25 FEET FROM ANY PUBLIC OR PRIVATE ROADWAY OR DRAINAGE CHANNEL. IF REMAINING FOR MORE THAN SEVEN DAYS, STABILIZE THE STOCKPILES BY MULCHING. TEMPORARY EROSION AND SEDIMENT MEANS. CONTROL EROSION FROM ALL STOCKPILES BY PLACING SILT BARRIERS AROUND THE PILES. TEMPORARY STOCKPILES LOCATED ON PAVED SURFACES MUST BE NO LESS THAN TWO FEET FROM THE DRAINAGE/GUTTER LINE AND SHALL BE COVERED IF LEFT MORE THAN 24 HOURS.
6. MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IN PLACE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. INSPECT TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ON A DAILY BASIS AND REPLACE, DETERIORATED, DAMAGED, OR ROTTED EROSION CONTROL DEVICES IMMEDIATELY.
7. BEGIN TEMPORARILY OR PERMANENTLY STABILIZE ALL CONSTRUCTION AREAS WHICH HAVE BEEN FINISH GRADED IMMEDIATELY (BY END OF NEXT DAY) AND ALL AREAS IN WHICH GRADING OR SITE BUILDING CONSTRUCTION OPERATIONS ARE NOT ACTIVELY UNDERWAY AGAINST EROSION DUE TO RAIN, WIND AND RUNNING WATER WITHIN 7 DAYS. USE SEEDING AND MULCHING, EROSION CONTROL MATTING, AND/OR SODDING AND STAKING IN GREEN SPACE AREAS. APPLICATION OF GRAVEL BASE ON AREAS TO BE PAVED RECOMMENDED MINIMIZING EROSION POTENTIAL.
8. REMOVE ALL TEMPORARY SYNTHETIC, STRUCTURAL, NON-Biodegradable EROSION AND SEDIMENT CONTROL DEVICES AFTER THE SITE HAS UNDERGONE FINAL STABILIZATION AND PERMANENT VEGETATION HAS BEEN ESTABLISHED. MINIMUM VEGETATION ESTABLISHMENT IS 70% COVER. MAINTAIN ALL TEMPORARY EROSION CONTROL DEVICES UNTIL 70% ESTABLISHED COVER IS ACHIEVED.
9. READY MIXED CONCRETE AND CONCRETE BATCH PLANTS ARE PROHIBITED WITHIN THE SITE. UNDER NO CIRCUMSTANCES MAY WASHOUT WATER DRAIN ONTO THE SITE OR INTO THE STORM SEWER. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING DESIGNATED CONCRETE WASHOUT AREA THAT COMPLIES WITH MPCA REQUIREMENTS. UNDER NO CIRCUMSTANCES ARE CONCRETE TRUCKS MUST CONTAIN WASH WATER AND HAIL FROM SITE.
10. ALL EROSION CONTROL ELEMENTS ARE TEMPORARY. CONTRACTOR TO INSTALL EROSION CONTROL ELEMENTS PRIOR TO START OF LAND DISTURBING ACTIVITIES. MAINTAIN IN GOOD CONDITION DURING CONSTRUCTION AND REMOVE FROM THE SITE UPON COMPLETION OF FINAL PAVING AND TURF ESTABLISHMENT.
11. EROSION CONTROL SHALL BE PLACED ALONG THE PERIMETER OF THE SITE EXCAVATION. EROSION CONTROL SHALL BE PLACED SO IT DOES NOT DISTURB THE EXISTING PAVEMENT OR DRIVE LANES THAT ARE TO REMAIN. MANY METHODS OF EROSION CONTROL WILL WORK AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL THE MEASURE MOST APPROPRIATE TO THE SITE CONDITIONS AND THAT WHICH MEETS THE SAUK RIVER WATERSHED DISTRICT AND MPCA STANDARDS. EROSION CONTROL IS GRAPHICALLY SHOWN ON THE PLANS FOR CLARITY BUT SHALL BE PLACED IN THE MOST APPROPRIATE LOCATIONS NOT TO DAMAGE EXISTING PAVEMENT AND/OR CURBS TO REMAIN. DRAINAGE PAVEMENT AND/OR CURBS SHALL BE PAID FOR SOLELY BY THE CONTRACTOR. SEE DETAILS AND SPECIFICATIONS.
12. CONTRACTOR TO PROVIDE TEMPORARY SEED OR SOD, AND MULCH ON ALL NON-PAVED AREAS WITHIN 7 DAYS AFTER ROUGH GRADING IS COMPLETED. SEED WITH ANNUAL RYE SEED AT 60 LBS PER ACRE AND WOOD MULCH FIBER AT 45 LBS PER 1,000 SF.
13. CONTRACTOR TO PREVENT DIRT AND/OR DEBRIS FROM ENTERING STORM SEWER OR BEING TRANSPORTED OFF-SITE IN AN UNCONTROLLED MANNER. CONTRACTOR TO VERIFY AT PROJECT CLOSEOUT THAT STORM SEWER SYSTEM IS CLEAR OF SEDIMENT AND/OR DEBRIS AND IS FULLY FUNCTIONAL.
14. STRAWBALES ARE NOT ALLOWED ON SITE IN ANY CAPACITY.

LEGEND

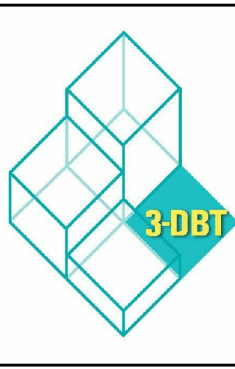
---	PROPERTY LINE
○	EXISTING LIGHT POLE
●	EXISTING BOLLARD
■	EXISTING COMMUNICATION PEDESTAL
□	EXISTING ELECTRIC TRANSFORMER
RR	EXISTING IRRIGATION VALVE BOX
—	EXISTING SIGN
○	EXISTING HYDRANT
—	EXISTING VALVE
FLAG	EXISTING FLAG
●	EXISTING SOIL BORING
—	EXISTING FLARED END SECTION
○	EXISTING CATCH BASIN
○	EXISTING SANITARY MANHOLE
○	EXISTING STORM MANHOLE
○	EXISTING WATER MANHOLE
○	EXISTING TREE
○	EXISTING TREE STUMP
○	EXISTING HC PARKING STALL
○	EXISTING SPOT ELEVATION
---	EXISTING CONTOUR
---	EXISTING CHAIN LINK FENCE
---	EXISTING WIRE FENCE
---	EXISTING SANITARY SEWER LINE
---	EXISTING BURIED GAS LINE
---	EXISTING GAS LINE
---	EXISTING FIBER OPTIC LINE
---	EXISTING WATER LINE
---	EXISTING IRRIGATION LINE
---	EXISTING STORM LINE
---	PROPOSED LIMITS OF CONSTRUCTION - PROJECT DURATION, SEE NOTE #41
---	PROPOSED LIMITS OF CONSTRUCTION - TEMPORARY CONSTRUCTION, SEE NOTE #41
---	PROPOSED LIMITS OF BLAST ZONE
---	PROPOSED LEED LINE
---	PROPOSED EASEMENT
1043	PROPOSED CONTOUR
+54.5	PROPOSED SPOT ELEVATION
←	DENOTES SURFACE DRAINAGE
=====	PROPOSED CURB AND GUTTER REMOVAL
-----	PROPOSED SAWCUT LINE
-x-x-	EXISTING UTILITY TO BE REMOVED
=====	PROPOSED STORM SEWER
=====	PROPOSED SANITARY SEWER
=====	PROPOSED WATERMAIN
CWR CWR	PROPOSED CHILLED WATER RETURN
CWS CWS	PROPOSED CHILLED WATER SERVICE
-----	PROPOSED OXYGEN LINE
-----	PROPOSED FIBER OPTIC LINE
=====	PROPOSED ELECTRICAL DUCTBANK
=====	PROPOSED FIBER OPTIC DUCTBANK
=====	PROPOSED STEAM SERVICES
○	PROPOSED CATCH BASIN/AREA DRAIN/FLOOR DRAIN
○	PROPOSED SANITARY/STORM MANHOLE
○	PROPOSED HYDRANT
□	PROPOSED GATE VALVE
□	PROPOSED ELECTRICAL PULL BOX
○	PROPOSED FIBER HAND HOLE
○	PROPOSED TREE PROTECTION
---	PROPOSED CONCRETE WASHOUT
---	SILT FENCE
○	EROSION CONTROL AT CB/MH
○	EXISTING TREE TO BE REMOVED
=====	EXISTING BITUMINOUS PARKING LOT TO BE REMOVED (SEE SHEET C200)
=====	EXISTING BITUMINOUS PAVEMENT TO BE REMOVED (SEE SHEET C200)
=====	EXISTING CONCRETE TO BE REMOVED (SEE SHEET C200)
=====	EXISTING GRAVEL TO BE REMOVED (SEE SHEET C200)
=====	PROPOSED BITUMINOUS PAVEMENT (SEE SHEET C500)
=====	PROPOSED CONCRETE PAVEMENT (SEE SHEET C500)
=====	PROPOSED CONCRETE SIDEWALK (SEE SHEET C500)
=====	PROPOSED ROCK CONSTRUCTION ENTRANCE (SEE SHEET C602)

0	ISSUED FOR CONSTRUCTION	12/01/16
	BID SET	07/29/16
No	REVISION	DATE

224 SOUTH MICHIGAN AVENUE
SUITE 1400
CHICAGO, ILLINOIS 60604-2595
(312) 554-1400

VOA

ARCHITECTURE | PLANNING | INTERIOR DESIGN



6 WEST 6TH STREET
SUITE 800H
ST. PAUL, MN 55102
(651) 788-7461

ARCHITECTURE | COMMISSIONING | SCANNING

PIERCE PINI & ASSOCIATES

929B CENTRAL AVE. NE,
SUITE 312
BURNING WOOD, MN 55434
TEL 763.537.1311
FAX 763.537.1354

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DAMON FARBER
LANDSCAPE ARCHITECTS

401 2nd Avenue North, Suite 410
Minneapolis, MN 55401
p 612.332.7522 f 612.332.0936
www.damonfarber.com

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.

Rhonda S. Porice

Date: 11/05/2015 Reg. No. 41333

PROPOSED SERVICE LINE LOCATION	DATE
PROPOSED GATE VALVE LOCATION	DATE
PROPOSED PROJECT ELECTION NUMBER	DATE
PROPOSED PROJECT ELECTION NUMBER	DATE

PROPOSED DRAINAGE CONTROL DEVICE	DATE
PROPOSED EXISTING WATER	DATE
PROPOSED EXISTING UTILITY	DATE
PROPOSED EXISTING UTILITY	DATE

PROPOSED SERVICE LINE LOCATION	DATE
PROPOSED GATE VALVE LOCATION	DATE
PROPOSED PROJECT ELECTION NUMBER	DATE
PROPOSED PROJECT ELECTION NUMBER	DATE

ST. CLOUD VA M.C. COMMUNITY LIVING CENTER COTTAGE #2	DATE
ST. CLOUD VA M.C. COMMUNITY LIVING CENTER COTTAGE #2	DATE
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St. Cloud VA Health Care System

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