

Hill, Inc.

James R. H
PLANNERS / ENGINEERS /
2500 W. Cit. RD. 42, Suite 120, BURNEAU



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ST. PAUL, MINNESOTA

TITLE SHEET

FOR NEIGHBORHOOD HOUSING SERVICE

THE NE

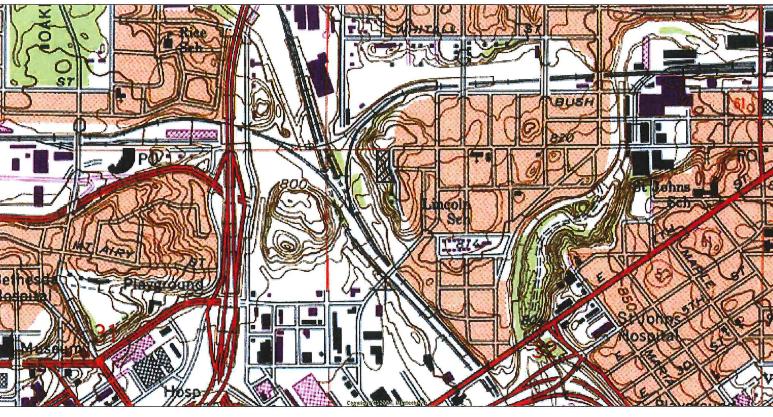
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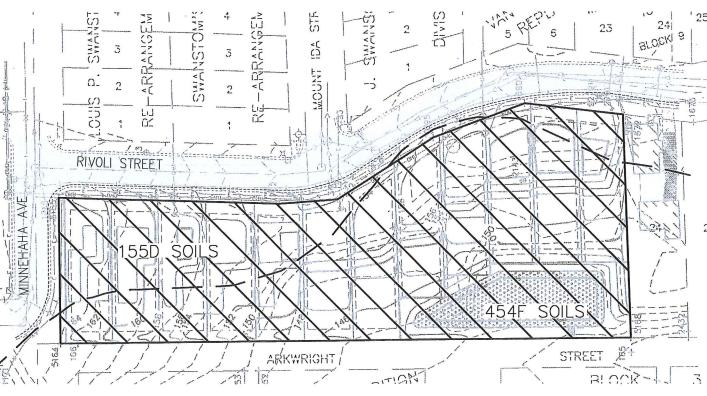
CAD FILE 21823-30TS

PROJECT NO. 21823-30



USGS MAP

NO TO SCALE



SOILS GROUP MAP

1 inch = 40 feet

GOPHER STATE ONE CALL

CALL 48 HOURS BEFORE YOU DIG!
TWN CITY AREA 651-454-0002
MN. TOLL FREE 1-800-252-1166

nc. VEYORS PLANNERS / ENGINEERS / 2500 W. Ctv. Ro. 42, Suite 120, Burnesy PHONE: (952)890-6044 FAX: (952)8 James

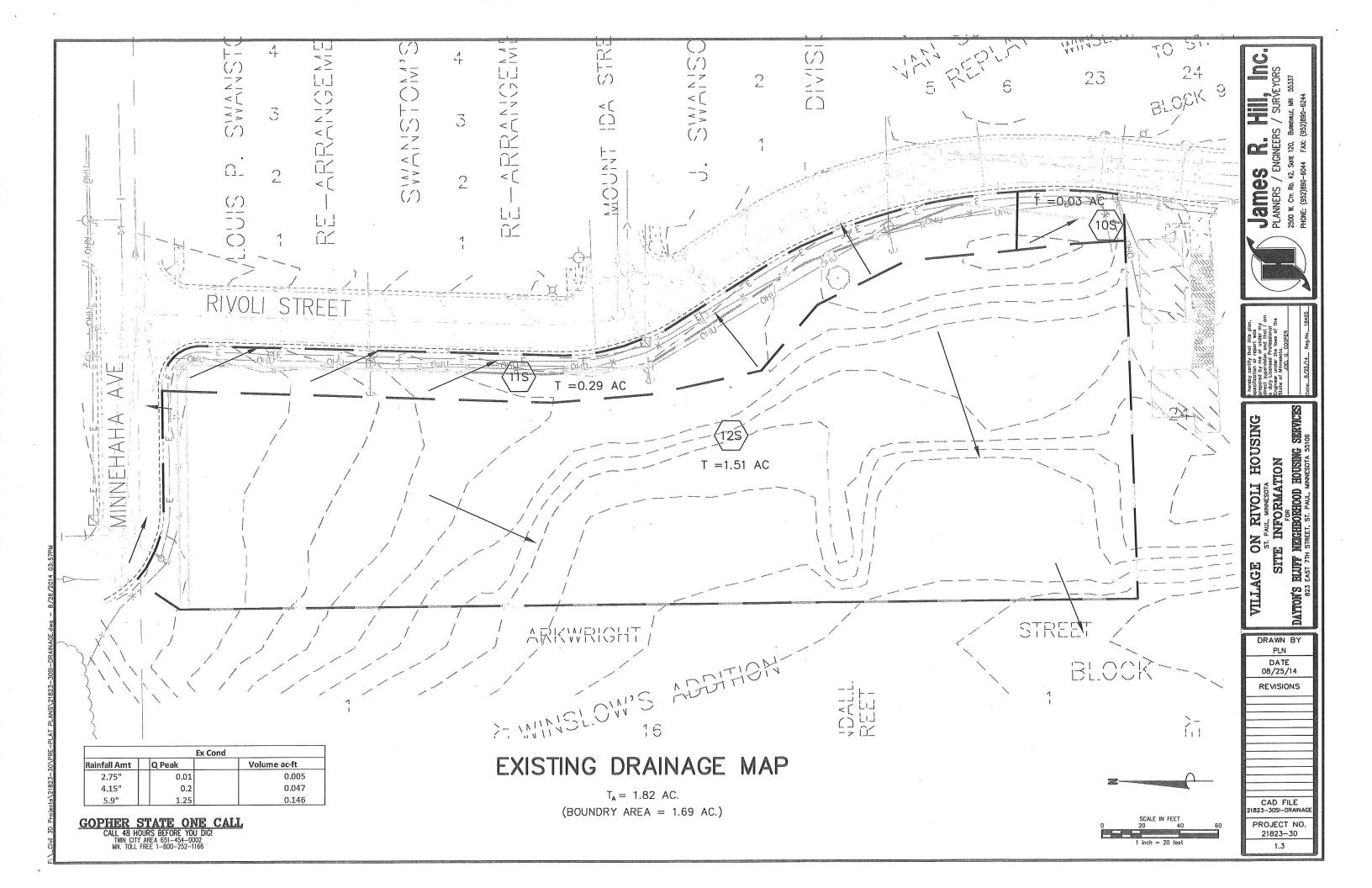
HOUSING DAYTON'S BLUFF NEIGHBORHOOD HOUSING SITE INFORMATION ON RIVOLI ST. PAUL, MINNESOTA VILLAGE

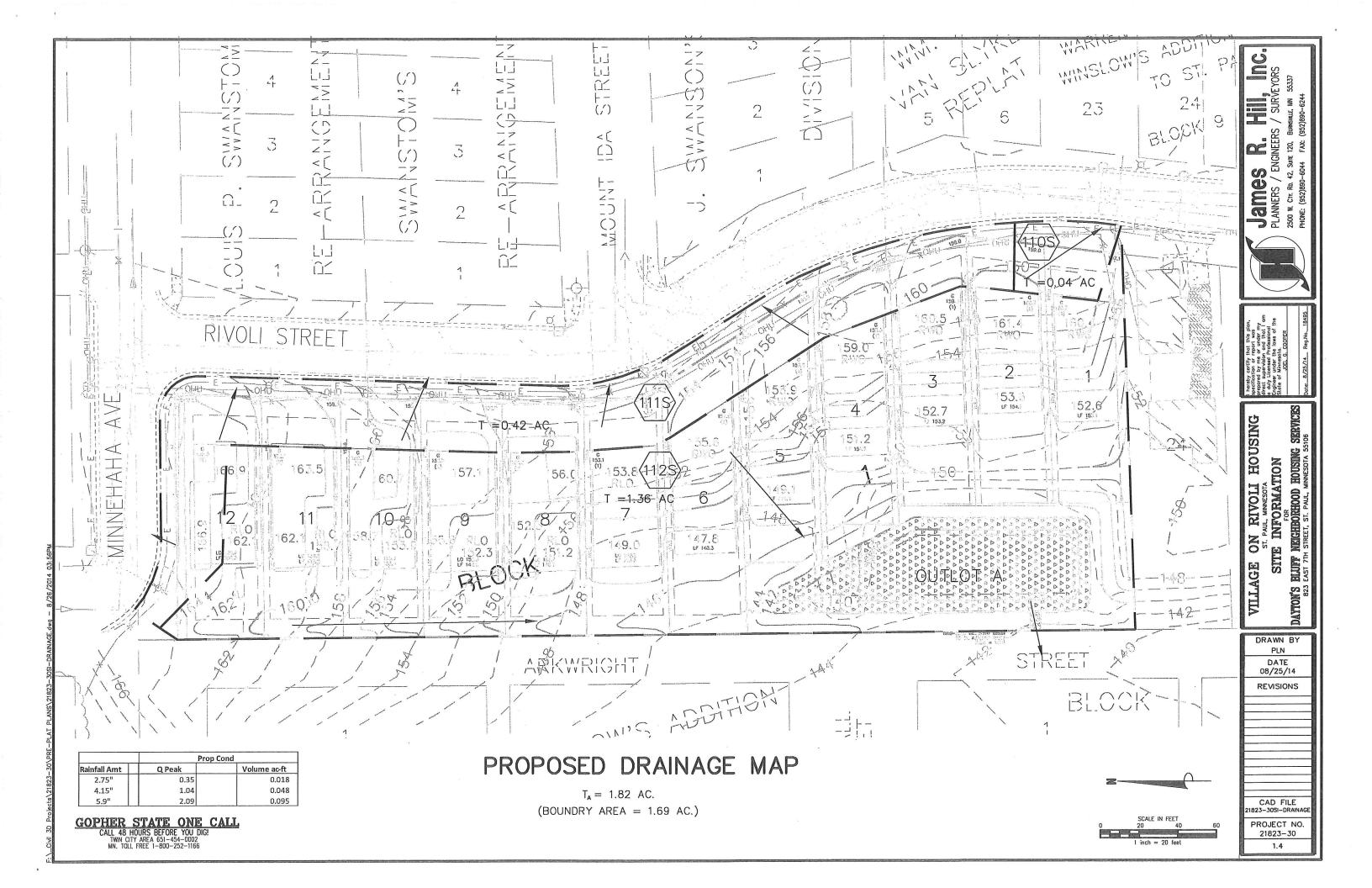
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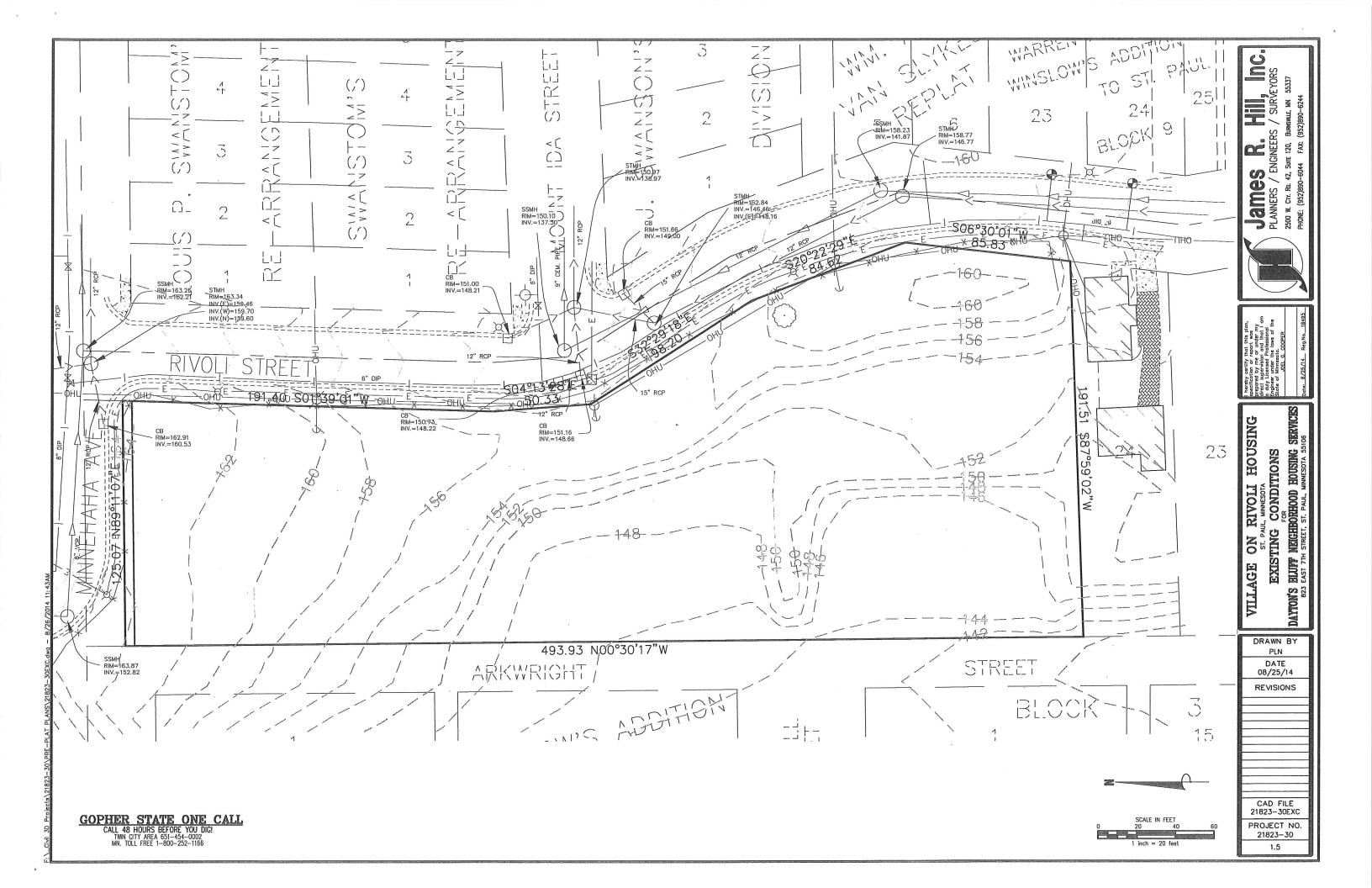
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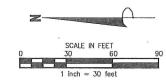
CAD FILE 21823-30SI-DRAINAG PROJECT NO.

21823-30









LEGEND

IRON SET
IRON FOUND
CONCRETE MONUMENT FOUND

NOTES

ORIENTATION OF THIS BEARING SYSTEM IS BASED ON THE SOUTH LINE OF LOT 25, BLOCK 7, WARREN AND WINSLOW'S ADDITION TO ST. PAUL TO HAVE AN ASSUMED BEARING OF S 87°59'02" W.

THIS SURVEY HAS BEEN PREPARED WITHOUT BENEFIT OF A TITLE COMMITMENT OR TITLE OPINION. A TITLE SEARCH FOR RECORDED OR UNRECORDED EASEMENTS WHICH MAY BENEFIT OR ENCUMBER THIS PROPERTY HAS NOT BEEN COMPLETED BY THE SURVEYOR.

CURRENT ZONING IS R4 ONE-FAMILY PER CITY OF ST. PAUL ZONING MAP PANEL 10 DATED MAY 8, 2014.

MINIMUM SETBACK OF R4 ONE-FAMILY DISTRICT PER CITY OF ST.PAUL ZONING ORDINANCE.

FRONT (GARAGE, HOUSE) – 25 FEET SIDE (HOUSE) – 4 FEET REAR (HOUSE) – 25 FEET

NOTE: MINIMUM SETBACK REQUIREMENTS ARE ESTABLISHED BY CITY ORDINANCE. THE SETBACK LINES ARE NOT DRAWN ON ANY OFFICIAL MAP FOR THIS SITE. THE LOCATION OF SETBACK LINES ARE SUBJECT TO LEGAL INTERPRETATION AND PLANNING CONSIDERATIONS. THEREFORE THE MINIMUM SETBACKS ARE LISTED BUT NOT SHOWN ON THIS SURVEY. SPECIFIC QUESTIONS REGARDING SETBACK REQUIREMENTS SHOULD BE DIRECTED TO THE REGULATING AUTHORITY.

OVERALL GROSS AREA = 73,611 SQUARE FEET OR 1.6899 ACRES

PROPERTY DESCRIPTION

Lots 25 and 26, Block 7, Warren and Winslows Addition to St. Paul.

Lots 27, 28 and 29, Block 7, Warrant (SIC) and Winslows Addition to St. Paul. (Torrens Certificate No. 302594)

Lots 30, 31 and 32, Block 7, Warren and Winslows Addition to St. Paul. (Torrens Certificate No. 304112)

Lot 33, Block 7, Warren and Winslows Addition to St. Paul. (Torrens Certificate No. 302639)

Lot 34, Block 7, Warren and Winslows Addition to St. Paul. (Torrens Certificate No. 302640)

I hereby certify that this survey, plan or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Land Surveyor under the Iaws of the State of Minnesota.

Signed this 25th day of August, 2014 For: James R. Hill, Inc.

By:

Harold C. Peterson, Land Surveyor, MN License No. 12294

LAGE ON RIVOLI ADDITION
St. Paul, MINNESOTA
PRELIMINARY PLAT
FOR
BLUFF NEIGHBORHOOD HOUSING SERVICES
823 EAST 77H STREET, ST. PAUL, MINNESOTA 55106

DAYTON'S

DRAWN BY

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8/25/14

REVISIONS

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ENGINEERS

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CAD FILE

2.1

- Application Required.

 a. The corner and operator shall submit a complete and accurate on-line application form with the appropriate fee to the MPCA for each project that disturbs one (1) or more acres of land or for a common plan of development or sate that will ultimately disturb one (1) or more acres. If the applicant is not able to apply on-line, contact the MPCA for technical sistance or a valver.

 b. For certain projects or common plans of development or sole disturbing 50 acres or more, the application must be submitted at least 30 days before the start of construction octivity. This requirement pertains to projects that have a discharge point on the project that its within one mile (perfor radius measurement) of, and flows to, a special water itseld in Appendix A, Part B. or waters listed as in appendix under section 300/d) of the federal Clean Water Act (see the MPCA's website) where the identified pollutant(s) or stress(s) are phosphorus (nutrient eutrophication biological indicators), turbidity, dissolved oxygen, or biotic impairment (fish bioassessment, aqualic plant bioassessment and aqualic macroinvertebrate bioassessment). Applicants of projects listed in this part must submit as complete and accusate an enablication form and SWPPP including all accusabilists of the Permanent nit a complete and accurate application form and SWPPP including all calculations for the Permanen
- All persons meeting the definition of owner and operator are Permittees and must be listed on the application owner is responsible for compliance with all terms and conditions of this permit. The operator is responsible for compliance with Parts II.B, III.C, III.B-F, IV, V, and applicable construction octivity requirements found in Append Part C, of this permit and is jointly responsible with the owner for compliance with those portions of the permit.
- Permit Coverage Effective Date: The commencement of any construction octivity (e.g., land disturbing activities)
- covered under Part LA. of this permit is prohibited until permit coverage under this permit is effective.

 a. For projects listed in Part LB.La. permit coverage will been effective sever (P) cleendar days after the electronic submitted late or the postmarked deet or complete application form.

 b. For projects listed in Part LB.Lb. permit coverage will been effective 30 calendar days after the electronic submitted date, the postmarked date or MPCA date sum post high projects of the complete application. For ions (e.g., lack of fees or signature) or incomplete SWPPPs (e.g., missing calculations, Best ment Proctice (BMP) specifications, estimated quantities of the BMPs, or timing of BMP installation), the permit becomes effective 30 calendar days after all required information is submitted.
- verage Notification: Permittee(a) will be notified of coverage in a manner as dete e-mail, online notification or letter).
- i. Change of Coverage: For construction projects where the owner or operator changes, (e.g., an original developersells portions of the property to various homebuilders or sells the entite site to a new owner) the current owner and the new owner or operator shall submit a complete permit undification on a form provided by the Commissioner. The form must be submitted prior to the new owner or operator commencing construction activity on site or in no case later than 30 days after taking ownership of the property. The owner shall provide a SWPPP to the newowner and operation activity of the property of the owner shall provide a SWPPP to the newowner and operation octivity.

TERMINATION OF COVERAGE

- . Termination of coverage when construction is complete: All Permittee(s) must submit a Notice of Termination (NOT) to the MPCA on a form provided by the Commissioner within 30 days after all activities required for Final Stabilization (see Part IV.G.) are complete. The Permittee(s) coverage under this permit terminates at midnight or the architecture of the NOT.
- transfer of ownership occurs: All Permittee(s) must submit a NOT on a form p Termination of coverage when transfer of ownership occurs; AII Permittee(s) must submit aNU on a form provided by when directing schormwater to vegetate the Commissioner within 30 days after selling or otherwise legally transferring the entire site, including permit sell, including permit permittees and the permittee of the control of a site to another party. The Permittee(s) coverage when the permittent includes a middle provided after of the permittent includes a middle provided and the permittent includes a middle provided after of the permittent includes a middle provided after of the permittent includes a middle provided and the permittent includes a mid
- Permittee(s) may terminate permit coverage prior to completion of all construction octivity if all of the following conditions are met. After the permit is terminated under this Part, if there is any subsequent development on the remaining portions of the site where construction octivity was not complete, new permit coverage must be obtained if the subsequent development itself or as part of the remaining common plon of development or sole will result in and disturbing activities of one filt or more areas in each. a. Construction activity has ceased for at least 90 days.
- A. At least 90 percent (by area) of all originally proposed construction activity has been completed and permanent cover established on those areas.

 c. On areas where construction activity is not complete, permanent cover has been
- d. The site is in compliance with Part IV.G.2, and Part IV.G.3, and where applicable, Part IV.G.4, or Part IV.G.5.
- . Permittee(s) may terminate coverage upon approval by the MPCA if information is submitted to the MPCA

hePermittee(s) must amend the SWPPP as necessary to include additional requirements, such as additional or modified
3. The Permittee(s) shall re-install all sediment control practices that have been adjust

- spections or investigations by site owner or operators, USEPA or MPCA officials indicate the SWPPP is not effective in eliminating or significantly minimizing the discharge of pollutants to surface waters or underground waters or that the discharges are causing water quality standard exceedances (e.g., nuisance conditions as defined in Minn. R. 7050.0210,
- The SWPPP is not achieving the general objectives of minimizing pollutants in stormwoter discharges
- . At any time after permit coverage is effective, the MPCA may determine that the project's stormwoter discharges ma 4. At any time after permit coverage is effective, the MPCA may determine that the project so stormwoler discharges may cause, have reasonable potential to cause, or contribute to non-attainment of any applicable water quality standard, or that the SWPCP does not incorporate the applicable requirements in Part III.A.B., (impaired Waters and TMOLS). If a water quality standard changes during the term of this permit, the MPCA will make a determination as to whether a modification of the SWPCP is necessary to address the new standard. If the MPCA makes such determinations (s) or any of the determinations in Parts III.B.J.-3, the MPCA will notify the Permitteo(s) in writing, in response, the Permitteo(s) must amend the SWPCP. To address the identified concerns and submit information requested by the MPCA, which may include an individual permit application. If the MPCA's written notification requires a response, failure to respond within the

RECORD RETENTION

SWPPP (original or copies) including, all changes to it, and inspections and maintenance records must be kept at the site geonstruction by the Permittee(e) who has/have operational control of that portion of the site. The SWPPP can be in either the field office or in an on-site which deuting normal working hours. All owner(e) must keeps the following do on file for three(e) years after submittal of the NOT as outlined in Part II.C. This does not include any records after

- I. Records of all inspection and maintenance conducted during construction (Part IV.E. Inspections and Maintenance)
- i. All required calculations for design of the temporary and permanent Stormwoler Management Systems.

III.F. TRAINING REQUIREMENTS

hePermittee(s) shall ensure the following individuals identified in this part have been trained in a

- ho must be trained:
 Individual(s) preparing the SWPPP for the project
 Individual(s) overseeing implementation of, revising, and amending the SWPPP and individual(s) performin,
 Inspections as required in Part IVC. One of these individual(s) must be available for an onsite inspection within
- Individual(s) performing or supervising the installation, maintenance and repair of BMPs. At least one individual on a
- aining content: The content and extent of training must be commensurate with the individual's job duties and sponsibilities with regard to activities covered under this permit for the project. At least one individual present on the mitted project is life or available to the project is list in 72 hours) must be trained in the job duties described in Part

PART IV CONSTRUCTION ACTIVITY REQUIREMENTS

V.A. STORMWATER POLLUTION PREVENTION PLAN

he Permittee(s) must implement the SWPPP and the requirements of this part. The BMPs identified in the SWPPP In this permit must be selected, installed, and maintained in an appropriate and functional manner that is in a relevant manufacturer specifications and accepted engineering practices.

IV.B. EROSION PREVENTION PRACTICES

- 1. The Permittee(s) must plan for and implement appropriate BMPs such as construction phasing, vegetative buffer 1. The Permittee(g) must plan for and implement appropriate BIMPs such as construction phasing, vegetative buffer strips, hortonal plane pradies, has prescribed and maintenance of Part IVE. and other construction practices that minimize erosion as necessary to comply with this permit and protect workers of the stoles. The location of areas not to be disturbed must be defineated (e.g., with flags, stakes, signs, sift frece etc.) on the project is the before work begins. The Permittee(s) must minimize the need for disturbance of portions of the project that have steep slopes. For those sloped areas which must be disturbed, the Permittee(s) must use techniques such as a phasing and stobilization practices designed for sloep slopes (e.g., slope draining and terracing).
- 2. The Permittee(n) must alobifize all exposed soil areas (including stockoiles). Stobilization must be initiated I. The Permittlee(g) must a lobilize all exposed soil areas (including stockpiles), Stobilization must be initiated immediately to ulimits all ension whenever any construction colicity has permanently or temporally cased on any portion of the site and will not resume for a period exceeding 14 calendar days. Stobilization must be completed no later than 14 calendar days after the construction colicity in that portion of the site has temporally or permanently ceased. For Public Wolters that the Minnesota Department of Natural Resources has promulgated "work in water restrictions" during specified fish payaming time frames, all specules allows that are within 200 feet of the water's edge, and drain to these waters must complete the stobilization activities within 24 hours during the restriction period. Temporary stockpiles without significant stilt, clay or organic components (e.g., clean aggregate stockpiles, demolition concrete stockpiles), and stockpiles of the values of the control of the contro lar surfaces are exempt from this requirement but must be in compliance with Part IV.C.5.
- 3. If using stormwoter conveyance channels, the Permittee(s) must design the channels to route water around unstabilized areas on the site and to reduce erosion, unless infeasible. The Permittee(s) must use erosion control and velocity dissipation devices such as check dams, sediment traps, piraps, or grouted rippra at outlets within and along the length of any constructed stormwoter conveyance channel, and at any outlet, to provide a non-residue flow velocity, to minimize resions of channels and their embankment, outlet, a diglecant tream banks, slopes, and
- 4. The Permittee(s) must slobilize 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 water around the site, within 200 lineal feet from the property edge, or from the point of discharge into any surfoce weder. Stobilization of the last 200 lineal feet must be completed within 24 hours after connecting to a surfoce woler or property edge.

The Permittee(s) shall complete stobilization of the remaining portions of any temporary or permanent ditches dar days after connecting to a Surface water or property edge and construction in that portion

Temporary or permanent ditches or swales that are being used as a sediment containment system during construction (with properly designed rock-ditch checks, bio rolls, silt dikes, etc.) do not need to be stobilized during the temporary period of its use as a sediment containment system. These areas must be allobilized within 3ct hours after no longer being used as a sediment containment system. Applying mulch, hydromulch, tacklifer, polyacylamide or similar erosion prevention practices in our acceptable stobilization in any part of a temporary or permanent drainage ditch or swale.

5. Pipe outlets must be provided with temporary or permanent energy dissipolion within 24 hours after con a surface water.

- 6. Unless in loopible due to lack of pervious or vegetated areas, the Permitteo(c) must direct discharges from BMPs to vegetated areas of the site (including any noturol buffers) in order to increase sediment removal and maximite attormwoler in infilitation. The Permittee(s) must use velocity disaptation devices if necessary to prevent erosion

1. The Permittee(s) must employ Sediment control practices as necessary to minimize sediment from entering surface waters, including curb and gutter systems and storm sewer inlets. lers, including curb and gutter systems and storm sewer inlets. orary or permanent drainage ditches and sediment basins that are designed as part of a sediment

- tainment system (e.g., ditches with rock-check dams) require sediment control practices only as
- appropriate for site conditions.

 b. If the down gradient sediment controls are overloaded (based on frequent failure accessive maintenanceurierum) and the province of the province or requirement, the Pormittee (e) must install additional upgadient sediment control practices or reduced by the province of the province
- 2. Sediment control practices must be established on all down gradient perimeters and be located upgradient of any buffer rones. The perimeter addiment control practice must be in place before any upgradient land-disturbing activities begin. These practices shall remain in place until Final Stabilization has been established in accordance with Part IV.G. A floating silt curtain placed in the water is not a addiment control BIMP to satisfy perimeter control requirements in this part except when working on a shoreline and below the waterline. In those cases, a floating silt curtain placed be used as a perimeter control practice if the floating silt curtain is installed as close to shore as possible. Immediately after the short term construction activity (e.g. Installation of rip rap along the shoreline) in that area is complete, an upland perimeter control practice must be installed if exposed soils still drain to the surface water.
- nodate short-term activities such as clearing or guibbing, or passage of vehicles, immediately as the mactivity has been completed. The Permittee(s) shall complete any short-term activity that of padiment control practices a quickly as possible. The Permittee(s) must re-install undi-practices before the next precipition event year. If the Apparatus of the practices are proposed to the proposed to the practices are proposed to the practices are proposed to the proposed
- 4. All storm drain inlets must be protected by appropriate BMPs during construction until all sources with potential for discharging to the inlet have been stobilized. Inlet protection may be removed for a particular inlet if a specific safety concern (street flooding/freezing) has been identified by the Permittee(s) or the jurisdictional authority (e.g., city/countyl/womship/hmDDT enginee-). The Permittee(s) must document the need for removal in the SWPPP.
- oil stockpiles must have silt fence or other effective sediment controls, and cannot be placed in any notural buffers or surface waters, including stormwater conveyand conduits and ditches unless there is a bypass in place for the stormwater.
- icle traffic leaves any part of the site (or onto paved roads within the site Where vehicle traffic leaves any part of the site (or onto paved roads within the site):

 a. The Permittle(efc) must install a which texticing BMP to minimize the track out of sediment from the
 construction site. Examples of vehicle tracking BMPs include (but are not limited to) rock pads, mud mats,
 mulch, concrete or steel wash racks, or equivalent systems.

 b. The Permittlee(e) must use street sweeping if such vehicle tracking BMPs are not adequate to prevent
 sediment from being tracked onto the street (see Part IV.E.S.d.).
- 7. The Permittee(s) must install temporary sedimentation basins as required in Part III.C. of this permit.
- 9 The Permittee(s) must preserve a 50 foot polyrol, buffer, or life buffer is intensible, on the site) provide rediment controls when a surface water is located within 50 feet of the project's earth sand stormwater flows to the surface water. Natural buffers are not required adjacent to ditches, ludicial ditches, county ditches, stormwoter conv. The Permittee(s) is/are not required to enhance the quality of the vegetation that already exists in the buffer or f none exist. However, Permittee(s) can improve the natural buffer with vegetation
- If the Permitted(3) intents to use polymers, inocculaints, or other seanmentation treatment chamicals on the spin Bermitted(s) must comply with the following minimum requirements:

 a. The Permitted(s) must use conventional erosion and sodiment controls prior to chemical addition teleficitive treatment. Chemicals may only be applied where treated shorrwowler is directed to a sodiment control system which allows for filtration or settlement of the floc prior to discharge.

 b. Chemicals must be selected that are appropriately suited to the types of solis likely to be exposed during construction, and to the expected surblidity, plk, and flow rate of storrmwder flowing into the chemical surprised in the second surface of the second surface of
- c. Chemicals must be used in accordance with accepted engineering practices, and with dosing specific

IV.D. DEWATERING AND BASIN DRAINING

- 1. The Permitteo(s) must discharge turbid or sediment-laden waters related to dewolering or basin draining (e.g., ermit(leo(s)) must discharge turbid or sediment-laden waters related to dewot fering, or basin draining (e.g., edd discharges, ternch/dichc tust for drainage) to a temporary or permanent sedimentation basin on the profe-nless infeosible. The Permittee(s) may discharge from the temporary or permanent sedimentation basins to foce woters: if the basin water has been visually checked to ensure adequate treatment has been obtained in the and that nuisance conditions (see Minn. R. 2050.0210, subp. 2) will not result from the discharge. If the water to be discharged to a sedimentation basin prior to entering the surfoce woter, it must be treated with the printed BMPs, such that the discharge does not adversely affect the receiving water or downstream properties. e Permittee(s) must discharge water that contains oil or grease, the Permittee(s) must use an oil-water eparator or suitable filtration device (e.g. cartridge filters, absorbents pads) prior to discharging the water. The lem(s) must ensure that discharge points are adequately protected from erosion and scour. The discher dispersed over natural rock riprap, sand bags, plastic sheeting, or other accepted onergy dissipotion
- 2. All water from devolering or basin-draining activities must be discharged in a manner that does not cause nuisance ring channels or on downslope properties, or inundation in wellands causing significant
- 3. If the Permittee(s) is/are using filters with backwash water, the Permittee(s) must haul the backwash water awa for disposal, return the backwash water to the beginning of the treatment process, or incorporate the backwash water to the into the site in a manner that does not cause erosion. The Permitte(s) may discharge backwash water to the sanitary sewer if permission is granted by the sanitary sewer authority. The Permitte(s) must replace and clean the filter media used in dwortering devices when required to retain adequate function.

IV.E. INSPECTIONS AND MAINTENANCE

- 1. The Permit(lee(s) must ensure that a trained person (as identified in Part III.A.3.a.) will routinely inspect the entire construction site at least once every seven (7) days during active construction and within 24 hours after a rainfall event greate than 0.5 inches in 24 hours. Following an inspection that occurs within 24 hours after a rainfall event, the next inspection must be conducted within seven (7) days after the rainfall event.
- 2. All inspections and maintenance conducted during construction must be recorded within 24 hours in writing and the e retained with the SWPPP in accordance with Part III.E. Records of each inspection and maintenance activity shall

- b. Name of person(s) conducting inspections
 c. Findings of Inspections, Including the specific location where corrective actions are needed
 d. Corrective actions taken (including dates, times, and party completing maintenance activities)
 e. 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 guage installed consiste, a weather station that it within 1 mile of your location or a weather
 reporting system that provides site specific rainfall data from radar summaries.
- I flary discharge is observed to be courting during the inspection, a record of all points of the property from which there is a discharge must be made, and the discharge should be described (i.e., color, odor, floating, settled, or suspended sollds, foam, oil sheen, and other obvious indicators of pollutates) and photographed.

 p. Any amendments to the SMPPP proposed as a result of the inspection must be documented as required in Part III.B.

- . Where parts of the project site have permonent cover, but work remains on other parts of the site, the Permittee(s)
- Where parts of the project site have permonent cover, but work remains on other parts of the site, the Permit may reduce inspections of the areas with permonent cover to once per month.
 Where construction sites have permonent cover on all exposed soil areas and no construction octivity is sor anywhere on the site, the site must be inspected during non-freeng pround conditions at least once per month for a of twelve (12) months. Following the twelfth month of permonent, cover and no construction octivity, inspectingly the permitted of the construction octivity, inspecting the MPCA that erosion issues have been detected at the site and inspections need to resume.
- Where work has been suspended due to frozen ground conditions, the inspections may be suspended. The required inspections and maintenance schedule must begin within 24 hours after runoff occurs at the site or 24 hours prior to
- hePermiltee(s) is/are responsible for the inspection and maintenance of temporary and permanent water quality anagementBUPPs, as well as allerosion prevention andsedement control BUPPs, until another Permittee has blanded coverage under this Permit according to Part like. 5c or the project has undergone-fined (Stobiltection, and anNOT has been submitted to the MPCA.
- The Permittee(s) must inspect all erosion prevention and sediment control BMPs and Pollution Prev agement Measures to ensure integrity and effectiveness during all routine and post-rainful event inspections. All unctional BMPs must be repaired, replaced, or supplemented with functional BMPs by the end of the next business of discovery, or as soon as field conditions allow access unless another time frame is specified below. The Permittoe(s) investigate and comply with the following inspection and maintenance requirements:
- ivestigate and comply with the following inspection and maintenance requirements: serimeter control devices must be repaired, replaced, or supplemented when they become nonfunctional or the sedimen hes one-half (1/2) of the height of the device. These repairs must be made by the end of the next business day after
- discovery, or thereafter as soon as field conditions allow access.

 Temporary and permanent sedimentation basism sure to drained and the sediment removed when the depth of sediment collected in the basin reaches one-half (1/2) the storage volume. Drainage and removal must be completed within 72 hours of discovery, or as soon as field conditions allow access (see Part IV.D.).

 Surfoce waters, including drainage editches and conveyance systems, must be inspected for evidence of orosion and sediment deposition of the control of egal, regulatory, or physical access constraints. The Permittee(a) shall use all reasonable efforts to obtain access. If precluded, removal and attobilization must take place within come 12 and 12 a orecluded, removal and atobilization must take place within seven (7) calendar days of obtaining access. The Permitted(s) of sare responsible for contacting all local, regional, state and federal authorities and receiving any applicable permits, prior to
- Is/are responsible for contacting all local, regional, state and receral authoriums and recerving any pymanor promos, pro-conducting any work in surface valents.

 Construction site vehicle exit locations must be inspected for evidence of off-site sediment tracking onto paved surfaces.

 Construction site vehicle exit locations must be inspected for evidence of off-site within 24 hours of discovery, or if applicable, within a shorter time to comply with Part IV.C.6.

 Streets and other areas adjacent to the project must be inspected for evidence of off-site accumulations of sediment. If sediment is present, it must be removed in a manner and at a frequency sufficient to minimize off-site impacts (e.g., fugitive n streets could be washed into storm sewers by the next rain and/or pose a safety hazard to users of p
- i. All infiltration areas must be inspected to ensure that no sediment from ongoing construction octivity is reaching the infiltration area. All infiltration areas must be inspected to ensure that equipment is not being driven across the infiltration

IV.F. POLLUTION PREVENTION MANAGEMENT MEASURES

- The Permittee(s) shall implement the following pollution prevention management measures on the site:
- Building products that have the potential to leach pollutants must be under cover (e.g., plastic sheeting or temporary roofs) to prevent the discharge of pollutants or protected by a similarly effective means designed to minimize h Posticides harbicides inserticides festilizers treatment chemicals and landscape materials must be under cover le g. plastic
- sheeting or temporary roofs) to prevent the discharge of pollutants or protected by similarly effective means des minimize contact with atormwoler. roducts, wood preservatives, additives, curing compounds, and acids) must be properly stored in sealed containers to revent spills, leaks or other discharge. Restricted access storage areas must be provided to prevent vandalism, Storag isposal of hazardous waste or hazardous materials must be in compliance with Minn. R. ch. 7045 including secondary
- d. Solid waste must be stored, collected and disposed of properly in compliance with Minn. R. ch. 7035.
- e. Portable toilets must be positioned so that they are secure and will not be tipped or knocked over. Sanitary waste must be disposed of properly in accordance with Minn. R. ch. 7041.
- 2. Fueling and Maintenance of Equipment or Vehicles; Spill Prevention and Response: The Permittee(s) shall take reasonable and make the discharge of the discharge
- . Vehicle and equipment washing: If the Permittee(s) wash the exterior of vehicles or equipment on the project site, washing must be limited to a defined area of the site. Runoff from the washing area must be contained in a sediment basin or other imilarly effective controls and waste from the washing activity must be properly disposed of. The Permittee(s) must properly use and store soaps, detergents, or solvents. No engine degreasing is allowed on si
- 4. Concrete and other washouts waste: The Permit (tex(s)) must provide effective containment for all liquid and solid wastes generated by washout operations (concrete, stucco, paint, form release oils, curing compounds and other construction materials) related to the construction octifily. The liquid and solid washout wastes must not contact the ground, and the containment ust be designed so that it does not result in runoff from the washout operations or areas. [uid and solid wastes must be disposed of properly and in compliance with MPCA rules. A sign must be installed adjacent to each washout facility that requires site personnel to utilize the proper facilities for disposal of concrete and other washout wastes.

- the Permittee(s) must ensure Final Stabilization of the site. Final Stabilization is not complete until all requirements of
- All soil disturbing activities at the site have been completed and all soils are atobited by a uniform perennial vegetative cover with a dentity of 70 percent of its espected final growth dentity over the entire pervious surface area, or other equivalent mean recessary to prevent soil failure under erosive conditions.
- 2. The permanent stormwoler management system is constructed, meets all requirements in Part III.D. and is operating as designed. Temporary or permanent sedimentation basins that are to be used as permanent water quality management basin have been cleaned of any accumulated sediment. All sediment has been removed from conveyance systems and ditches are stobilized with permonant cover.
- 3. All temporary synthetic and structural groulon prevention and sediment control BMPs (such as silt fence) have been removed on the portions of the site for which the Permittee(s) is/are responsible. BMPs designed to decompose on site
- For residential construction only, individual lots are considered finally stobilized if the structure(s) are finished and temporary erosion protection and downgradient perimeter control has been completed and the residence has to the horeover. Additionally, the Permittee has distributed the MPCA's "Homeowner Foot Sheet" to the hot inform the homeowner of the need for, and benefits of, permonent cover.

5. For construction projects on agricultural land (e.g., pipelines across crop, field pasture or range land) the disturbed land ha

DEVELOPMENT SUMMARY

DAYTON BLUFFS NEIGHBORHOOD - ST. PAUL, MN

TYPE OF PROJECT: 12 Lot Single Family Residential Constr

TYPE OF WORK: Mass Grading, Utility and Street Construction Paving. Subsequently, Joint Trench and Home construction will

TOTAL PLATTED AREA: 1.69 AC TOTAL DISTURBED AREA: 1 69 AC

PROPOSED (DESIGN) IMPERVIOUS AREA: 0.83 AC

CONSTRUCTION PHASING

EXISTING IMPERVIOUS AREA

CONSTRUCTION PHASING
The project is expected to be constructed in multiple phases, within multiple construction seasons. Mass grading is anticipated to be completed within 3 weeks from commencement of work. Utility and street construction is anticipated to be completed within 2 weeks from ommencement of work.

SPECIAL WATERS: There are no special or impaired water within

Upon completion of grading the streets to the sub-grade elevation the contractor may utilize the street subcut to construction sediment traps at strategic drainage capture points.

water basins will be partially constructed during mass grading and completed once upstream areas are fully stabilized. Contractor shall take precautions to avoid construction traffic and activities in this area to avoid over-compaction of soil and to preven

POTENTIONAL FOR EROSION AND DISCHARGE OF SEDIMENT As the site will be stripped of topsoil and vegetation for a period of several weeks during construction, the potential for erosion will increase. The proposed stormwater basins and street subcut will serve as temporary sediment basins during construction

The risk of discharge of sediment off of the site is rather minimal, due to the grade orientation and design. This can be controlled by heavy duty silt fence, buffer strips, and erosion control blanket.

Contractor will be required to manage completion of 3:1 slopes such that soil exposure is minimized. After excavation and embankments are completed, slopes shall be re-spread with topsoil, the slope rades certified, and erosion blanket installed as per the plan ontractor shall coordinate these steps to be carried out in a timely

EROSION CONTROL BMPs

- he construction plans anticipate the use of, but are not limited to, the following Erosion Control BMPs:
- Perimeter delineation to minimize disturbed areas
- . Temporary Rock Construction Entrance 3. Temporary straw mulch as needed.
- Seed and mulch/soc
- 8. Horizontal slope grading

SEDIMENT CONTROL BMPs he construction plans anticipate the use of, but are not limited to,

- ne following Sediment Control BMPs ent traps constructed in street subcut
- Rock filter dikes in street sub Nous niter dixes in street subcut
 Utilize permanent stormwater basin as Temporary Sediment
- 4. Silt Fence at project perimeter or toe of slopes 5. Inlet protection on existing catch basins
- 6. Inlet protection on existing culverts 7 Inlet protection after utility construction 8. Linear control along back of new curb and gutter (bioroll or silt
- Routine street sweeping adjacent to construction entrance.

Refer to plans for designated locations of BMPs, details and

BASIN AND TRAP DEWATERING BMPs

BASIN AND I RAP DEWALERING BMPS

Should the need arise for basin or trap devatering, contractor shall utilize a floating skimmer pump intake, such that the water is drawn from the surface of the basin. Pumped effluent shall not be discharged into Surface Waters in a turbid state. Furbid effluent shall be filtered with mechanical devices, chemica

filtering, or a combination thereof, to a state of 50 NTUs or less.

STABILZATION BMPs

The construction plans anticipate the use of, but are not limited to, the following Stabilization BMPs:

- After lot pads are grade certified, permanent seed and mulch can be applied, generally from the front of the building pad, extending to the rear of the lot (areas where no further utility construction is
- After 3:1 slopes on lots are certified, permanent seed and erosion
- Riprap at pipe outfalls
 Riprap at pipe outfalls after grade certified.

 5. After curbs are backfilled, apply permanent seed and mulch to remaining building pads and boulevard area not already
- 6. Sod placement, as appropriate

POLUTION CONTROL BMPs

- Fueling: A fixed fueling station is not anticipated. Contractor will be required to implement BMPs for onsite re-fueling of
- Concrete Washout: A suggested washout area will be specified. on the plan. The developer has the ability to adjust location or to provide alternative washout containment.
- There is not an anticipated need for storing chemicals, paints, solvents or other potentially toxic or hazardous materials on si

Seed placed for permanent cover or final stabilization requires 6* minimum topsoil cover. Exception: Infiltration/Filtration basins - see basin details for soil type). Multiple site visits will be required to

- (1) General Seed & Mulch.
 A. Seed: MNDOT 25-141 at a rate of 59 lb/acre
- B. Fertilzer: Type 3 slow release 10-10-10 at a rate of 200 lb/acre C. Mulch: MNDOT Type 1 at a rate of 2 tons/acre
- (2) Stormwater/Filtration Basins (Aquatic Bench & Filtration Basin Only)
 A. Seed: MNDOT 34-262 at a rate of 14.5 lb/acre B. Fertilzer: Type 3 slow release 10-10-10 at a rate of 200 lb/acre C. Mulch: MNDOT Type 3 at a rate of 2 tons/acre
- (3) Stormwater/Filtration Bank (Stormwater Basin & Filtration Basin OLE to HWL) Seed: MNDOT 33-261 at a rate of 35 lb/acre
- B. Fertilzer: Type 3 slow release 10-10-10 at a rate of 200 lb/acre C. Mulch: MNDOT Type 3 at a rate of 2 tons/acre
- (4) <u>Upland Buffer</u>
 A. Seed: MNDOT 33-261 at a rate of 35 lb/acre
 B. Fertilizer: Type 3 slow rolease 10-10-10 at a rate of 200 lb/acre
 C. Mulch: MNDOT Type 3 at a rate of 2 tons/acre
- (5)Temporary Cover Crop (Ponding/Filtration/Adjacent Slope Areas) A. Seed: MNDOT 21-112 at a rate of 100 lb/acre
- B. Fertilzer: Type 3 slow release 10-10-10 at a rate of 200 lb/acre C. Mulch: MNDOT Type 3 at a rate of 2 tons/acre

INSPECTION AND MAINTENANCE OF BMPs

- outine Inspection

 1. Rock Entrance Inspect weekly. If rock becomes filled with sediment and tracked material to the extent the purpose ceases to function, remove the contaminated rock and replace with new 2 Silt fence - Inspect weekly, particularly for damaged sections
- Silt rence inspect weekly, particularly for damaged sections, breaches, down-gradient areas, flow concentration points, scour areas and sections adjacent to sensitive areas. Where capacity is filled to more than 50% of depth, sediment shall be removed to store capture capacity. diment traps and basins - Inspect weekly. Where capacity is
- filled to more than 50% of depth, sediment shall be removed to restore capture capacity within 72 hours of discovery. 4. Inlet Protection - Inspect weekly or more frequently as needed after multiple rainfalls less than 0.5". Verify intake capacity is not

compromised. Where capacity is filled to more than 50% of depth, sediment shall be removed to restore capture capacity.

Rain Event Inspection - Mandatory, within 24 hours after a rain event 0,5* or greater. Complete all items associated with Routine Inspection. Furthermore, inspect site for breaches, failures, scours and gullving,

Take corrective actions as necessary to restore functionality to the

BMP's If a given situation is discovered to be prope to repetitive failure

- ADDITIONAL SWPPP NOTES All Erosion and Sediment Control facilities shall be maintained by the contractor during the construction operations. Any temporary facilities which are to be removed as called for on these plans and specifications shall be removed by the contractor at the time directed by the engineer. The contractor shall then restore the subsequently disturbed areas in accordance with these plans and
- Wherever practical and feasible, the contractor shall protect and preserve existing natural trees, grass and other vegetative cover in effort to provide natural buffering and filtering of runoff.
- 3. Contractor shall be adaptable in adjusting construction schedules in anticipation of weather forecasts of precipitation, in order to mize risk of erosion and sediment transpor minimize risk of erosion and securion for taken public streets, It is the responsibility of the contractor to keep public streets, travel ways, parking lots and trails utilized for ingress to and egress from the construction site free of dirt, sediment and debris resulting from construction activity. Cost for this shall be
- considered incidental to the contract. 5. Adequate control of dust shall be maintained by the contractor Cost for dust control shall be considered incid

- ADDITIONAL SWPPP NOTES (continued)
 6. Perimeter controls shall not be removed until final stabilization o
- Perimeter controls shall not be removed until final stabilization of areas draining toward the control devices.

 When temperatures do not exceed 40 degrees F, areas that require seed and mulch stabilization shall be dormant seeded. Application rate shall be two times the normal rate. No dormant seeding shall be done on ice or snow greater than 2° in depth.
- 8. Any areas that were seeded that do not achieve 70% coverage shall be reseeded at the contractor's expense, where coverage limitation is caused by lack of seed germination and growth

STORMWATER BASIN MAINTENANCE

All stormwater basins within the project will be owned and maintained by the City of Lakeville. Suggested practices are as follows:

1, Stormwater basins shall be moved 2-3 times, 30 days apart during the first year, with the mover deck set 6"-8" off the ground they must be moved once the second year, before the eeds set their seeds.

For the first three years after construction, basins should be inspected for obvious signs of erosion, such as gullies, fills or sediment plumes. Identify the cause and take corrective measures such that grades are restored and surfaces re-established with appropriate vegetation.

3. Inspect for sediment accumulation at the nine outlets into the pond at the completion of sod installation of last I plat.Remove sediment. Re-inspect every 3-5 years.

annually. Remove debris as necessary to allow for inlets and outlets to function as designed.

5. Verify basin design capacity after 15 to 20 years of service

MPCA STORMWATER PERMIT - RESPONSIBILITY The Contractor will be required to become the Permittee for the project, until final stabilization and transfer of responsibility is completed. Transfer of responsibility shall be completed with the Permit Modification Form

OWNER: GARY FINDELL DEDMITTEE:

OPERATOR(S): Supt (TBD)

(612)-508-6480(c)

OTHER CONTACTS **ENGINEER:** JOEL G. COOPER, PE, Proj. Mgr - James R. Hill, Inc. -

TRAINING REQUIREMENTS JOEL G. COOPER, P.E.
DESIGN OF CONSTRUCTION SWPPP (CERTIFICATION(2014-2017) UNIVERSITY OF MINNESOTA

INSTRUCTORS : JOHN CHAPMAN LGU CONTACT:

by the engineer.

MPCA COMPLIANCE: Paul Erdmann - MPCA - (651)-757-2544 The Contractor shall follow the implementation sequence as described on these plans. Amendments shall be made as site conditions change. Amendments shall be proposed by contractor and reviewed

All BMP's selected and implemented shall be appropriate for the time of year, the current site conditions and for the estimated duration of

YORS MN 624

SUR/ \ SS NGINEER.

WITE 120, BL

FAX: (9P.

2, Sure 6044 S 42, .89 39 O VERS C1x. Rb. (952)899

(952)

PLANN 2500 W. GD)

SERVICES S C DETAIL

HOUSING

CONTROL

These plans shall be considered part of the project SWPPP. A copy of the SWPPP shall remain on site throughout active construction. RIV

NEIGHBORH SEDIMENT NO BLUFF 国 अ C

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PIN

DATE

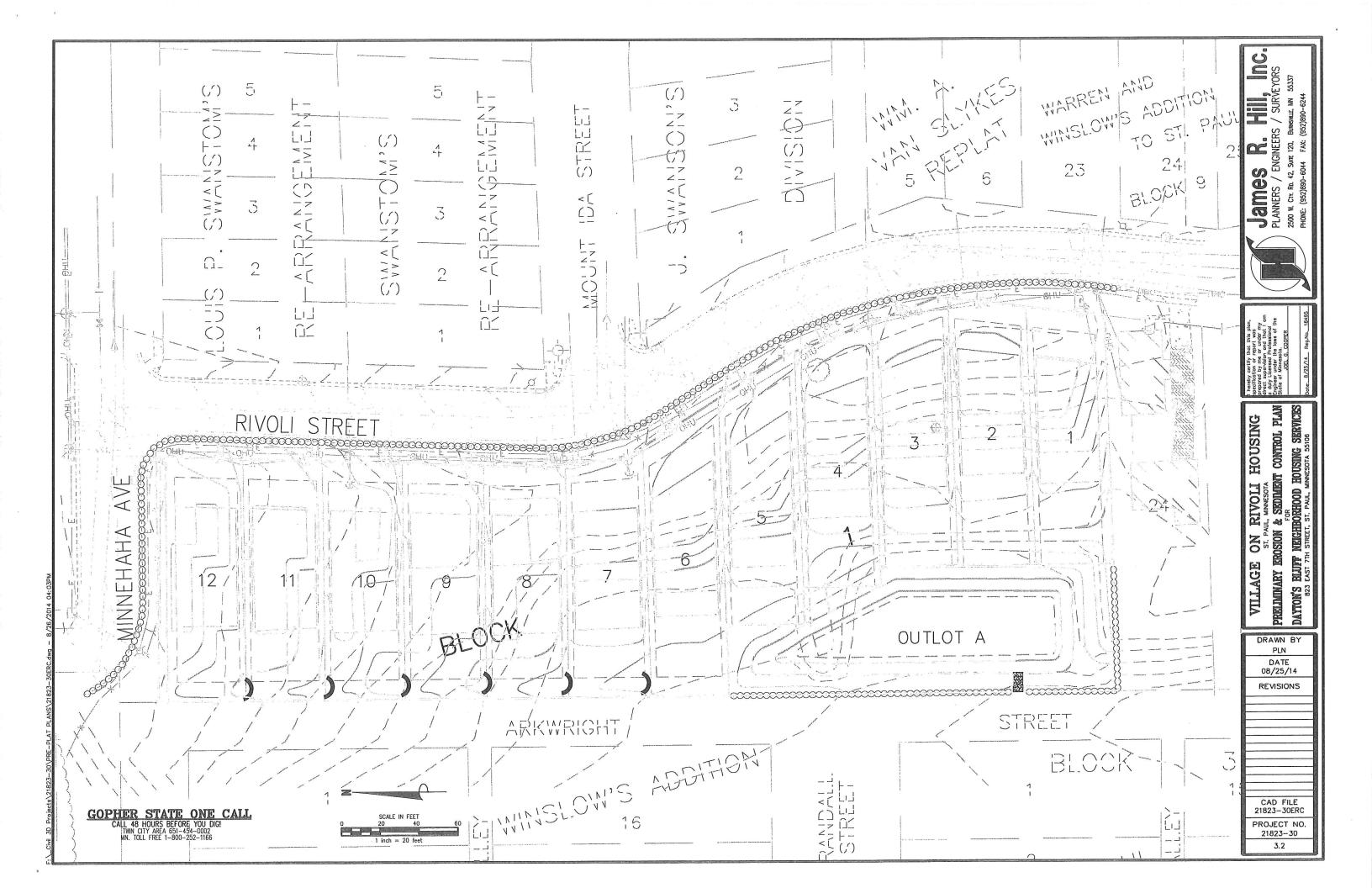
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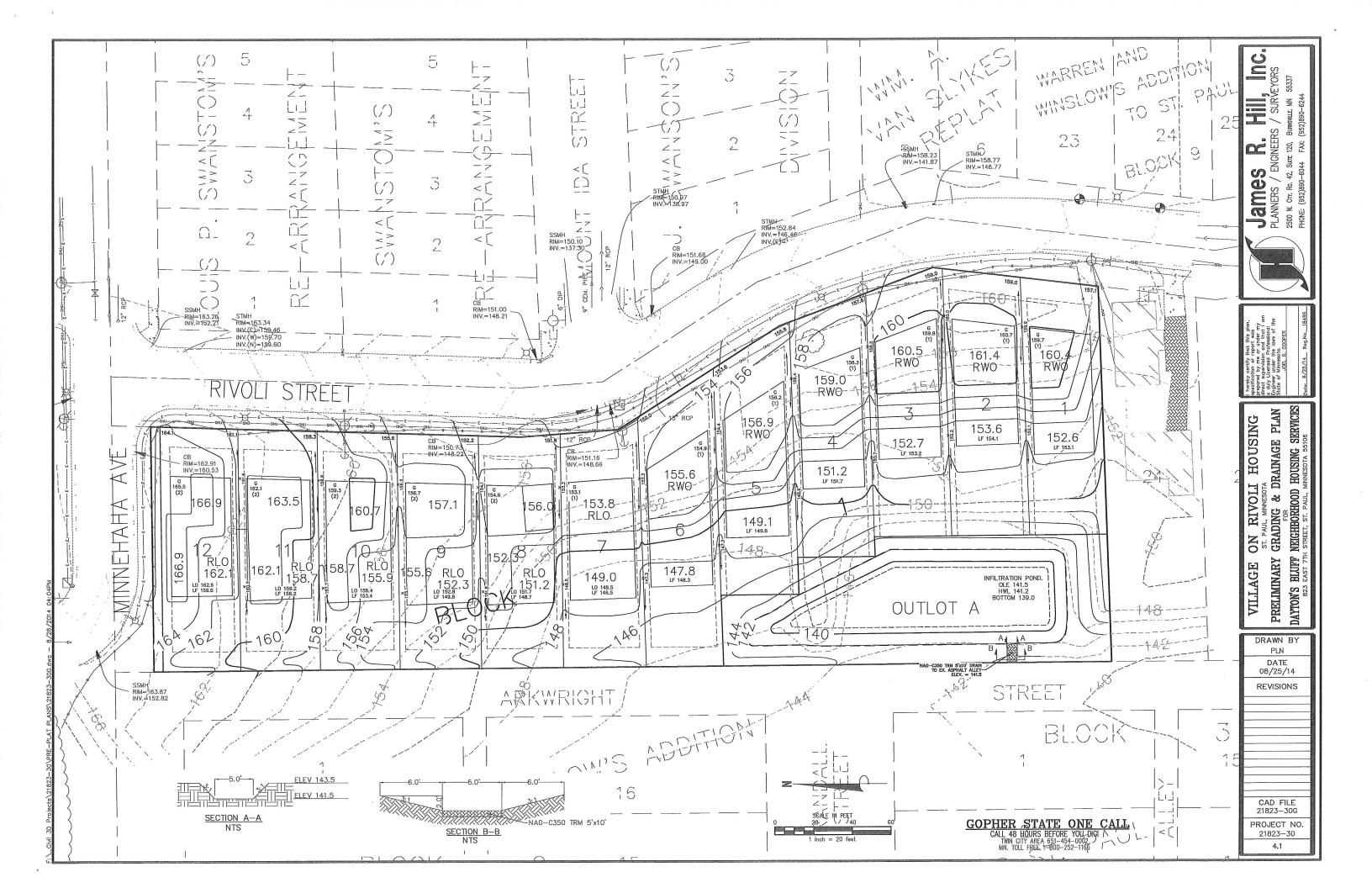
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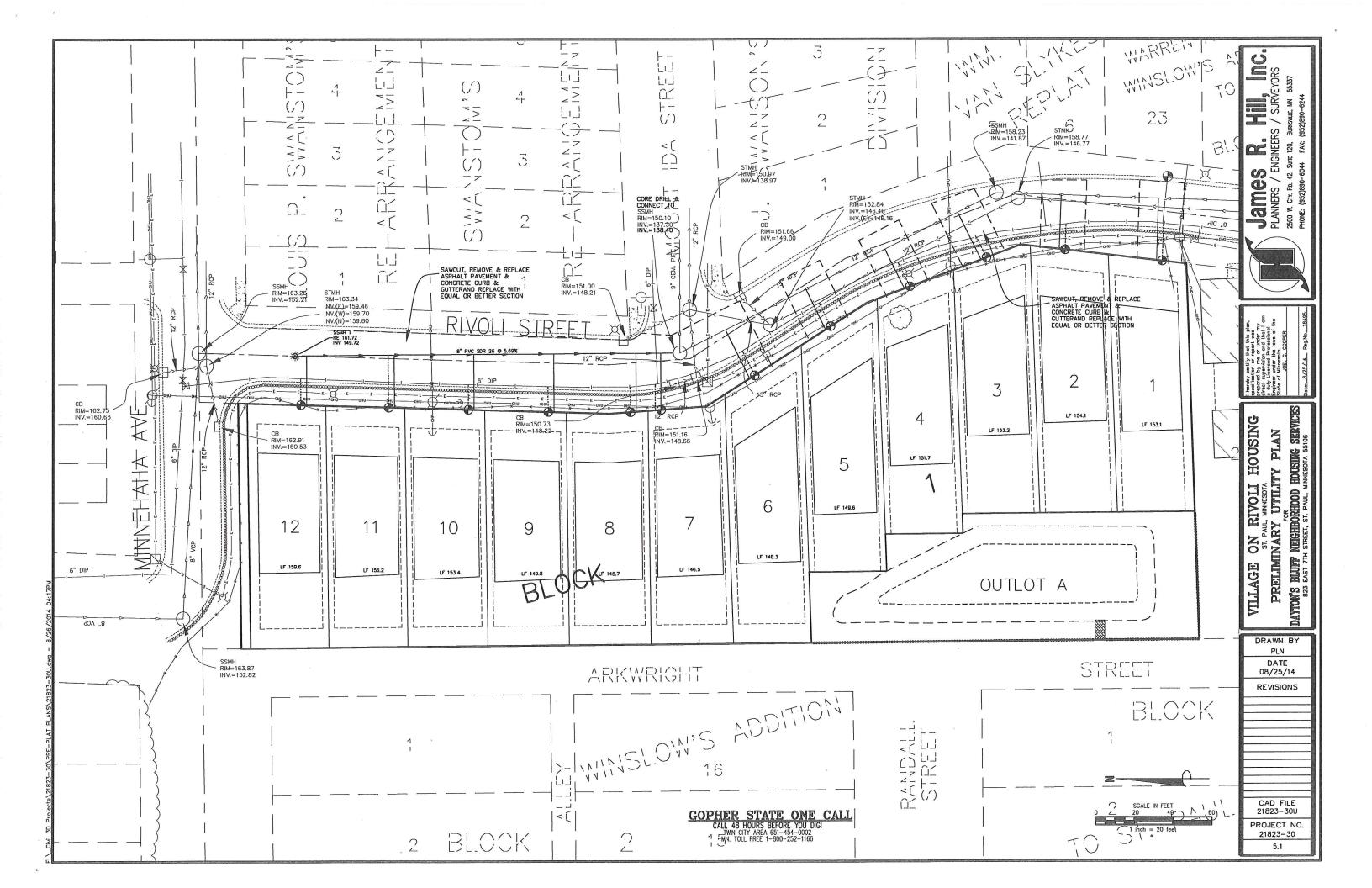
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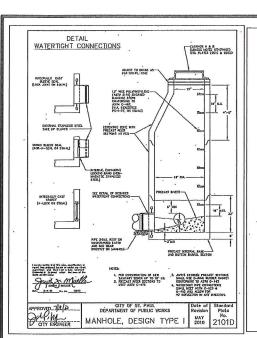
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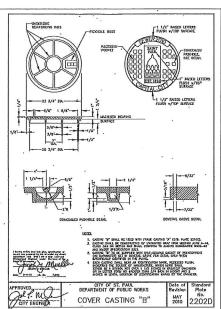
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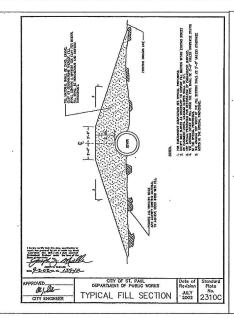


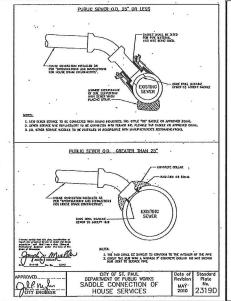


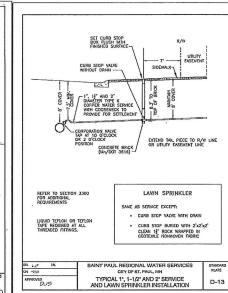


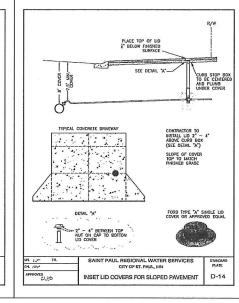


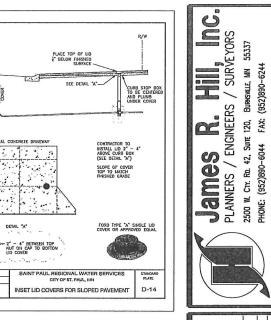












ON RIVOLI HOUSING
St. PAUL, MINNESOTA
DETAILS
FOR

VILLAGE

SERVICES NEICHBORHOOD HOUSING STREET, ST. PAUL, MINNESOTA 55 BLUFF DAYTON'S

DRAWN BY PLN DATE 08/25/14 REVISIONS

CAD FILE 21823-30D PROJECT NO.

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