City of Saint Paul Memorandum of Understanding Water Reuse



Opportunity

- Metro Transit Operations & Maintenance (OMF)
 - 4 acres of roof
 - Currently piped to Mississippi River
 - 2" rainfall = 226,000 gallons
- Saint Paul Saints Stadium
 - 120,000 square feet of irrigated ballfield
 - 1" per week irrigation = 75,000 gallons/week
 - Toilets inside stadium
- Located directly adjacent to each other
- Excellent opportunity to reduce potable water use for irrigation
- Potential marketing opportunity



Site Plan



Saint Paul Saints Stadium



Operations and Maintenance Facility

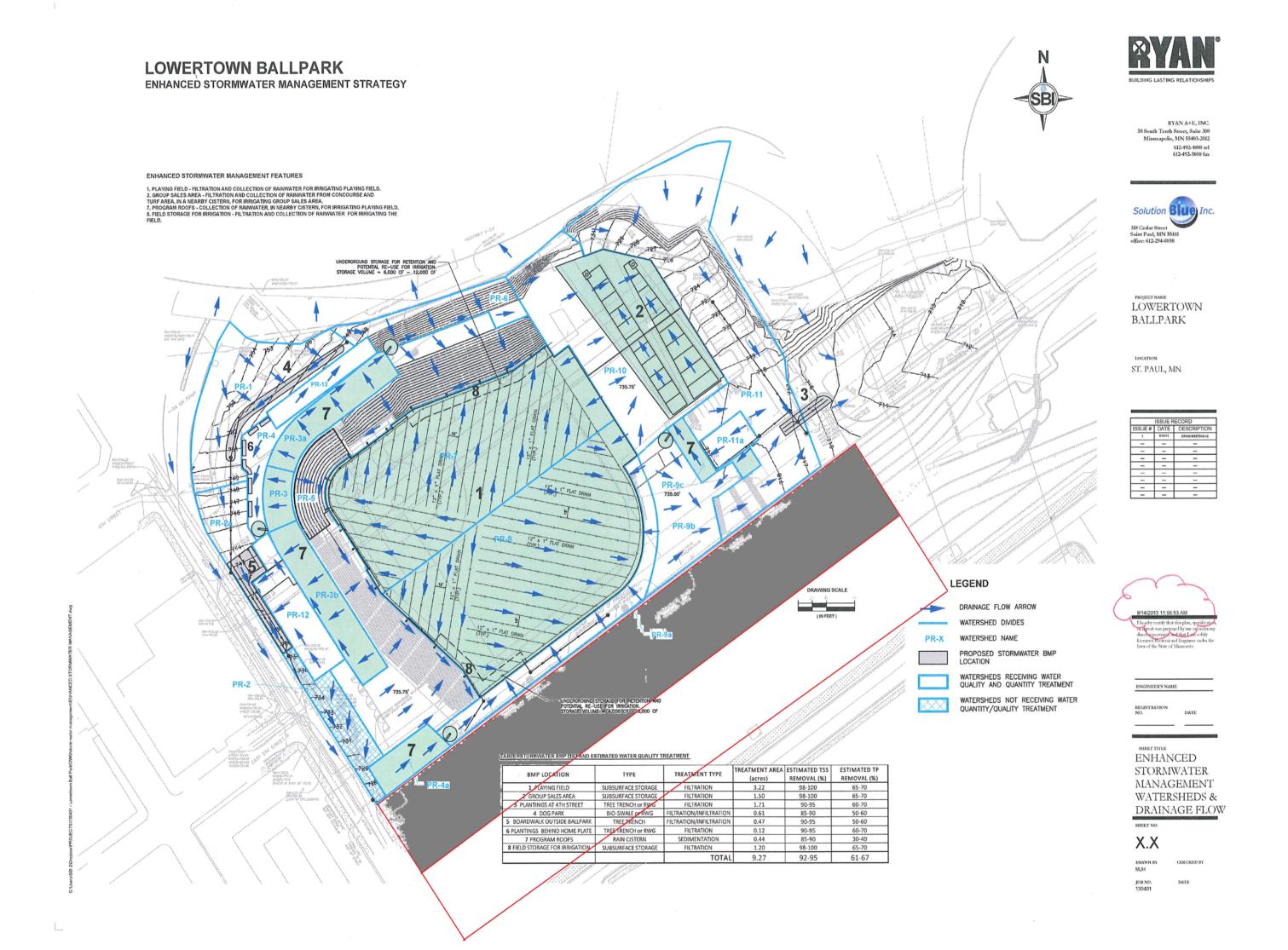


Concept

- Harvest rainwater from 2 acres of OMF roof
- Pipe rainwater to north side of OMF
- Deliver rainwater to City of Saint Paul
- City designs and installs rainwater reuse system
 - Ballfield irrigation
 - Non-potable use in bathrooms
- Metropolitan Council provides \$75,000 to City
- Metropolitan Council funds OMF alterations



Plan View



Timeline and Challenges

- OMF roof re-construction in late summer 2014
- After completion of stadium reuse system
- After Green Line has begun operations
- Working on agreement with City
- Coordinating with Metro Transit
- Scheduling of OMF roof re-construction will be closely coordinated to minimize disruption to Green Line operations



Benefits to Metropolitan Council

- Showcase rainwater harvesting and reuse system
- Significant reduction in potable water use for irrigation
- Marketing value: Greening the Green Line



