



# VILLAGE OF WINNETKA

## STORMWATER MANAGEMENT ON DUKE CHILDS FIELD





# COOK COUNTY MEMORANDUM OF UNDERSTANDING





## COOK COUNTY PROJECT DESCRIPTION

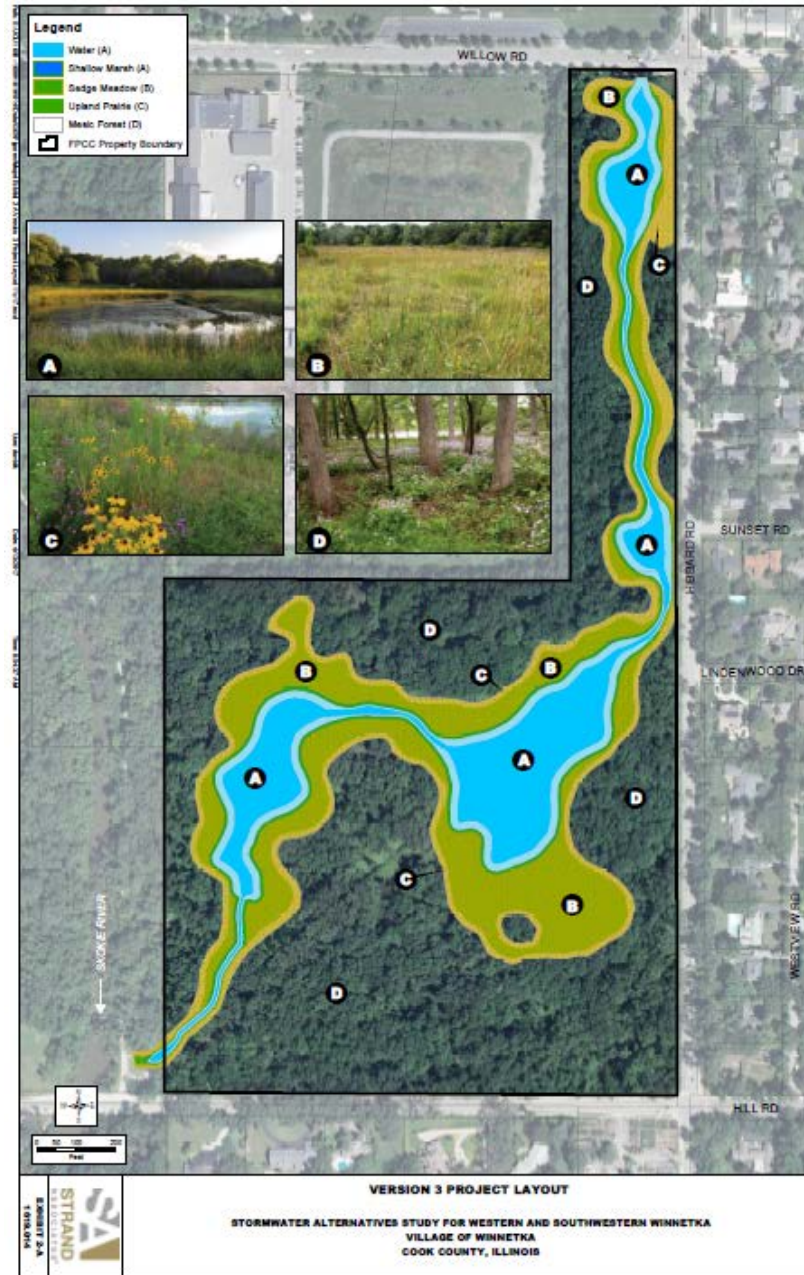
3

- Construct 74+/- acre-feet of stormwater storage (109 acre-feet overall) on 49-acre parcel
- Includes open-water, wetland, and sedge meadow areas
- Includes water-quality improvement measures and monitoring program
- Cooperatively conceived with Open Lands, Friends of the Forest Preserves, and the North Branch Stewards
- Village to maintain improvements





# PROJECT LAYOUT





## MEMORANDUM OF UNDERSTANDING KEY POINTS

5

- Construction of ~74 acre-feet of wetland stormwater storage
- Total storage on property ~109 acre-feet, including passive storage
- Runoff from 0.5-inch rain must be captured and treated before water can be discharged to Forest Preserve
- Require commitments to complete additional upstream storage projects





# DUKE CHILDS FIELD STORMWATER STORAGE IMPROVEMENT





## CHANGES TO ORIGINAL PROJECT VISION

7

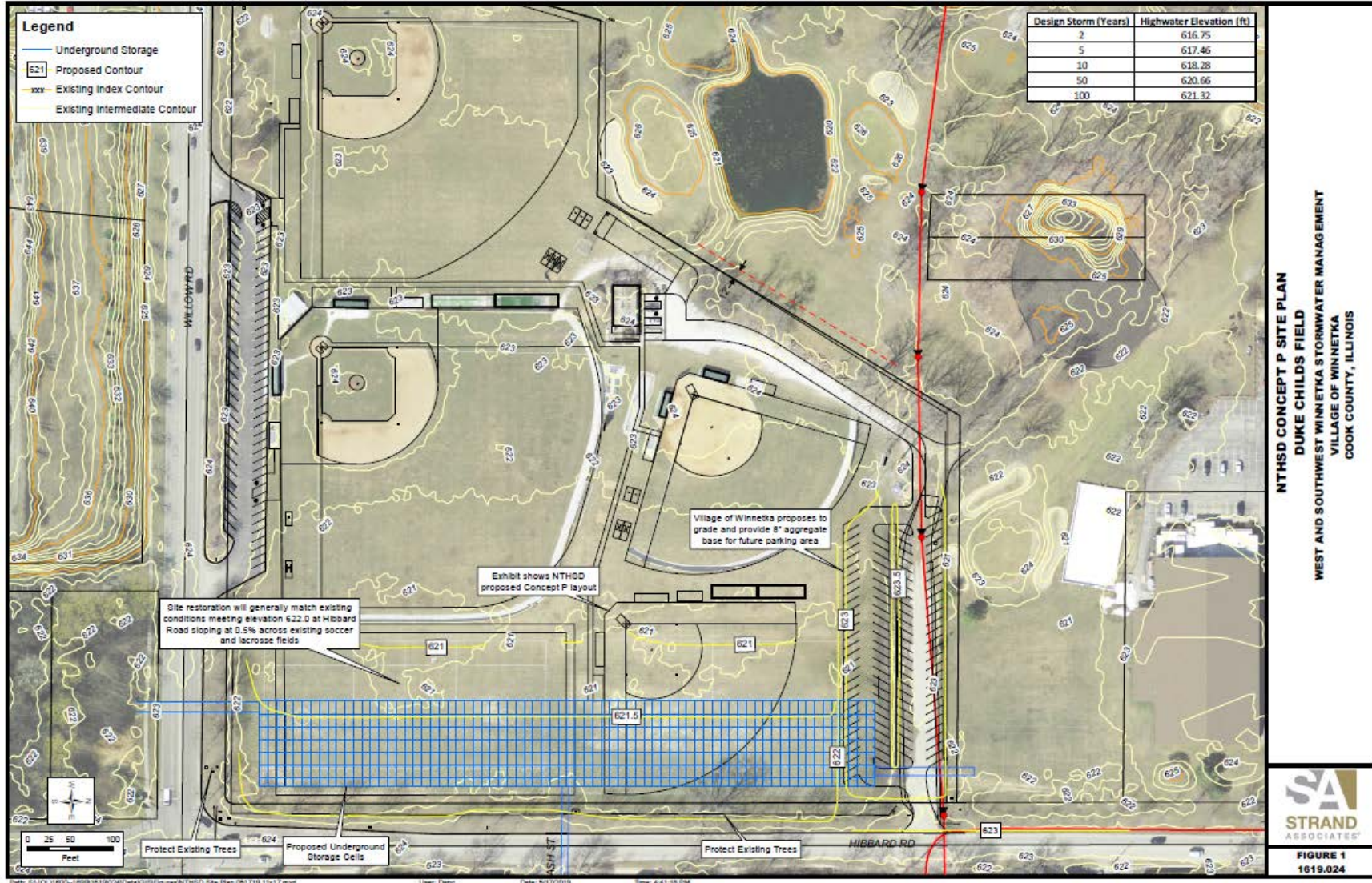
- Changed storage to underground to preserve practice field space at current location
- Moved some storage to other locations including “Little Duke”, Par-3 course, 18-hole course
- Engaged with NTHS staff and design team to explore optimized configurations of stormwater improvements and field configurations to produce a project that significantly benefits both Village and NTHS
- Continued engagement with NTHS staff and design team to modify storage size, location, grading, athletic field layout, and site amenities to optimize design and minimize overall cost







# CURRENT LAYOUT – BELOW GROUND STORAGE







## KEY FEATURES OF CURRENT PROJECT LAYOUT

- Provides approximately 14.2 acre-feet of storm water storage, which equates to approximately 15% of the total Village project requirements
- Maintains general existing grades of Lacrosse/Soccer fields
- Does not impact grading or interrupt use of existing varsity fields
- Provides 50-year flood protection for Duke Childs Field (4.14 inches in 3 hours) and greatly reduced flooding and drainage times for larger storms
- Fully compatible with NTHS long-term concept improvements to Duke Childs Field (NTHS Concept Q)





## PROJECT BENEFITS

- The project will significantly improve the drainage and playability of all fields in the Duke Childs complex.
- The Village will join NTHS as co-applicant for the required MWRD permit. The Village will also provide an expedited Village approval process.
- The storage facility has been designed to accommodate the estimated 7.2 acre-feet of compensatory storage required for the proposed "Concept Q". The cost to the Village to provide this benefit has been calculated at \$2,520,000 (7.2 acre feet @ \$350,000 per acre foot)
- The Village and NTHS will enter into an Intergovernmental Agreement which will replace the "Declaration of Covenants" to document the functional and legal aspects of the proposed improvements.

