







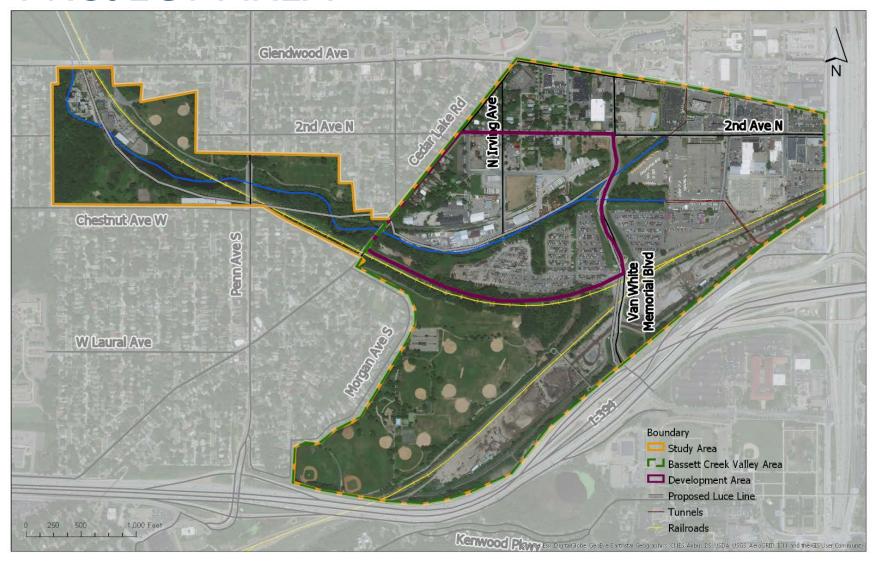
GROUNDING IN THE VALLEY

- What's happening?
- What are the issues?
- How were we able to move forward?
- What was the outcome?





PROJECT AREA









PROJECT DRIVERS – CITY PRIORITY FOR REDEVELOPMENT

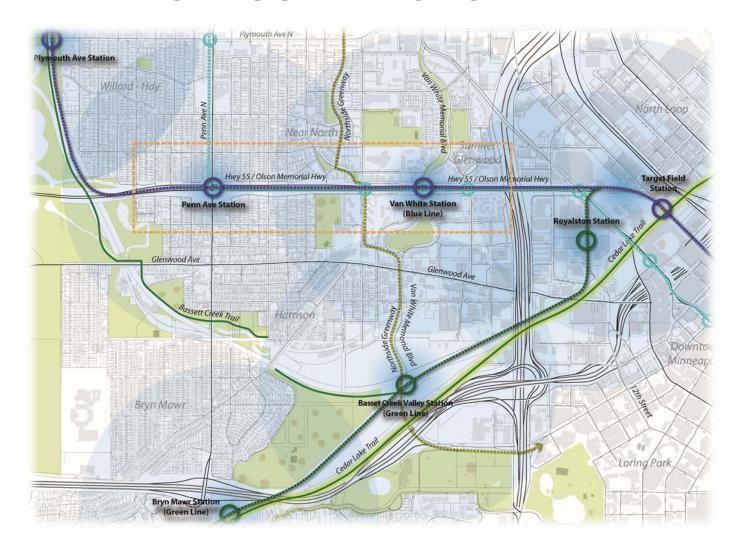








PROJECT DRIVERS – NEW TRANSIT CORRIDORS

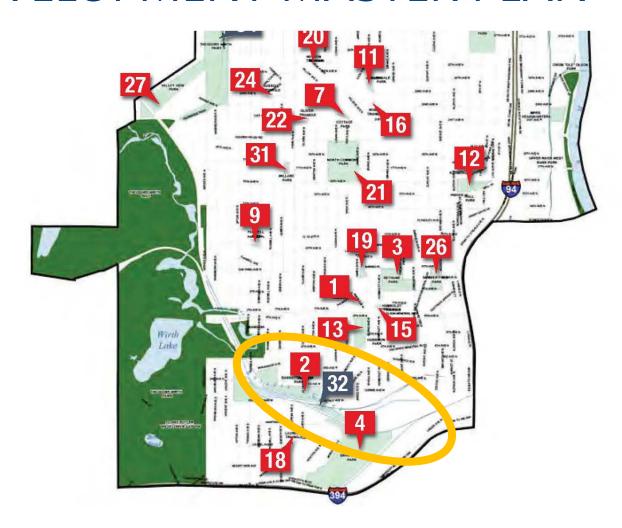








PROJECT DRIVERS – MPRB PARK REDEVELOPMENT MASTER PLAN

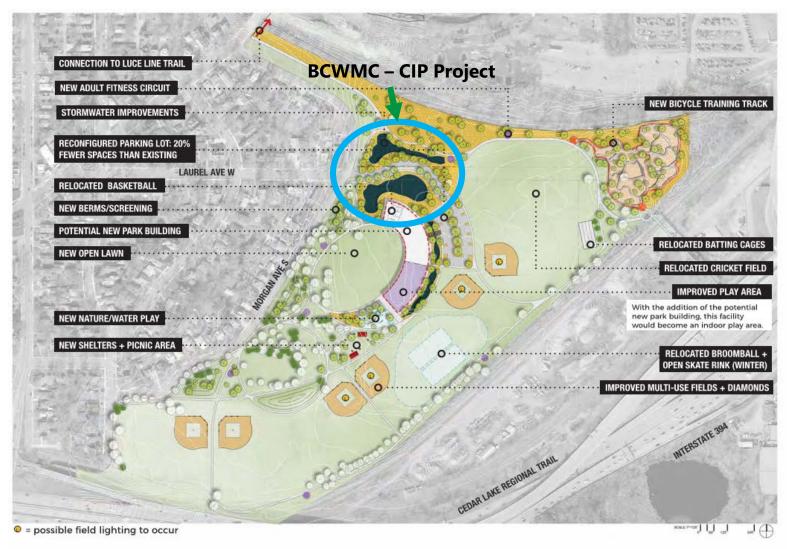








BRYN MAWR MEADOWS PARK PLAN - MPRB



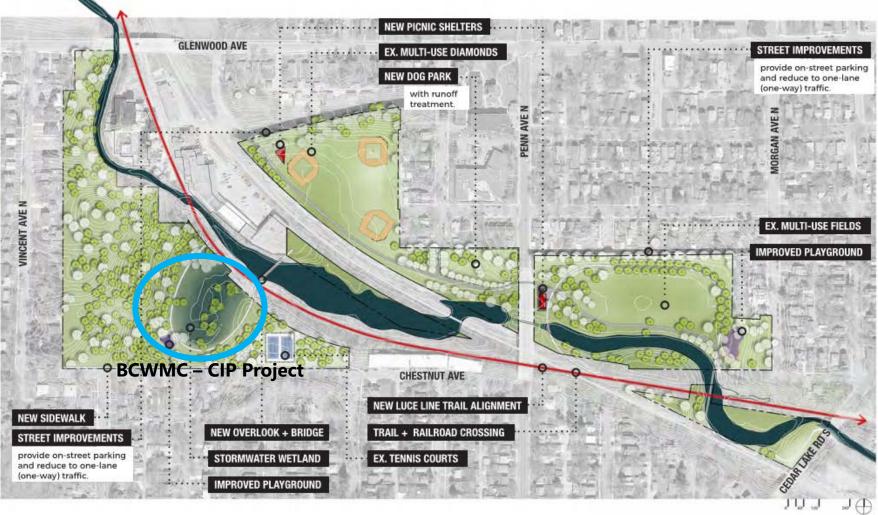
PROPOSED PLAN: BRYN MAWR PARK







BASSETT'S CREEK PARK PLAN - MPRB



PROPOSED PLAN: BASSETT'S CREEK PARK







PROJECT DRIVERS – MPRB REGIONAL TRAIL CONNECTIONS

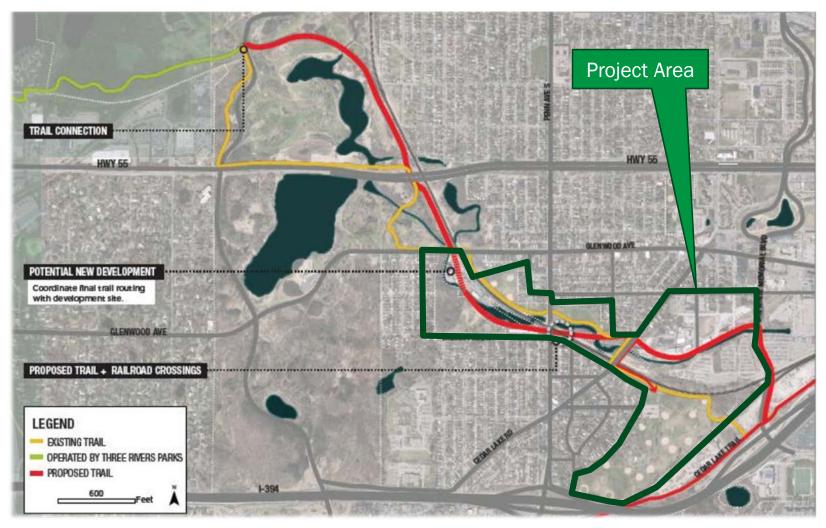


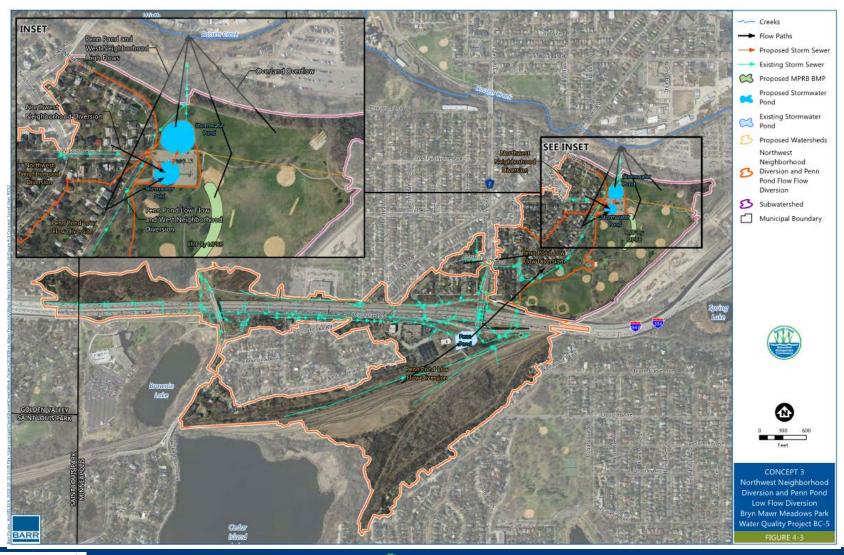
Figure from Minneapolis Park and Recreational Board-Luce Line Master Plan







BRYN MAWR MEADOWS WATER QUALITY FEASIBILITY STUDY - BCWMC









BASSETT CREEK STREAM RESTORATION – BCWMC + CITY OF MINNEAPOLIS



PLAN: SITE LAYOUT

0 250 500

SOME IN FEET

GENERAL NOTES

- 1. TOPO AND CONTROL GROUND SURVEY CONDUCTED BY BARR ENGINEERING IN 2017 IN HEMILEPIN COUNTY FEET PROJECTION
- 2. MAGERY; COPYRIGHT PICTOMETRY INTERNATIONAL CORP AND HEINHERIN COUNTY, MINNESOTA, 2015.
- 3. CONTRACTOR IS RESPONSIBLE TO LOCATE AND FIELD VERIFY ALL EXISTING UTILITIES PRIOR TO WORK
- ALL EXSTEND ROADS, PARKING LOTS, TRAILS, FENCES, SIGHS, OR SMELAR SHALL BE PROTECTED DURING CONSTRUCTION. CONTRACTOR RESPONSIBLE TO COORDINATE SURVEYS WITH THE CITY AND/OR GINNER TO DOCUMENT PRE-CONSTRUCTION EXISTS CONDITION ISSUES.
- Contractor shall install and mantan all engion control buts from to commercialist of grading for each location during construction. Erosion control plans are provided inside the project stormanzer pollution prevention plan (simple).
- ALL GROUND DISTURBANCE GENERATED FROM GRADING ACTIVITIES SHALL BE STABILIZED AND RESTORED WITH TOPSOIL, SEED W/COMER CROP AND EROSION CONTROL BLANKET OR STRAW MULCH.
- CONTRACTOR TO MANUAN EXISTING STREAM BOTTOM WOTH SO NOT TO DECREASE CREEK CROSS SECTIONAL AREA DURING RIPRAI INSTALLATION.
- 8. CONSTRUCTION LIMITS AS SHOWN ARE APPROXIMATE FINAL CONSTRUCTION LIMITS TO BE COORDINATED WITH THE OWNER AND/O
- 9. TEST AND MANAGE DISTURBED SOILS ON SITE AS DESCRIBED IN THE RESPONSE ACTION PLAN

90% PLAN SET ISSUED FOR REVIEW NOT FOR CONSTRUCTION







SITE CONSTRAINTS - FLOODPLAIN



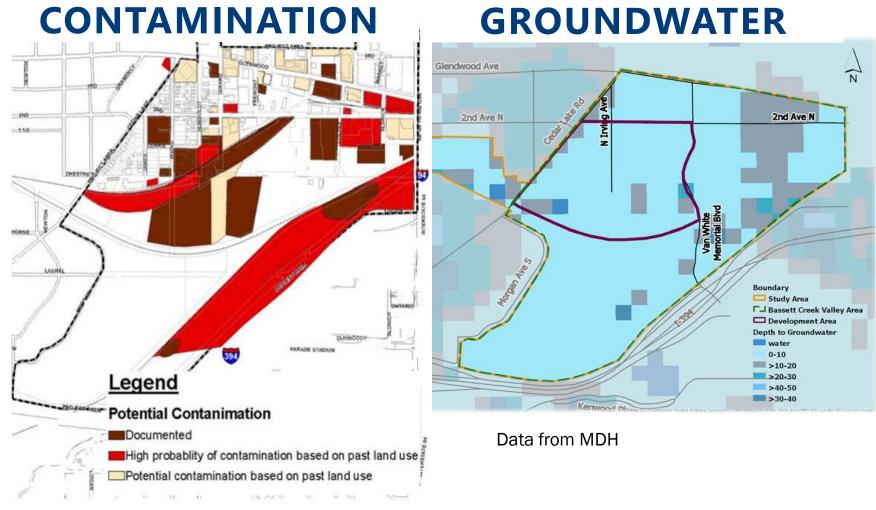
Data from BCWMC XP-SWMM Model (Aug. 2017)







SITE CONSTRAINTS











MOVING FORWARD

- Regional View of Solution
- Focused Common Goals
- Integrated as Site Amenity
- Connections to Community Trails & Creeks
- Stacked Features







DEVELOPMENT AREA CONCEPT DESIGN - CPED









PRECEDENTS - STACKED FEATURES

Crystal, MN



Minneapolis, MN



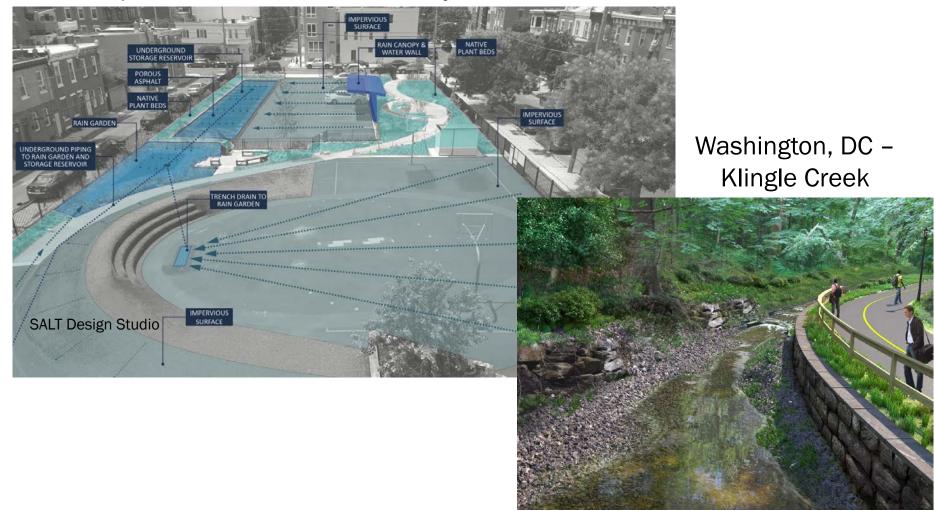






PRECEDENTS – STACKED FEATURES

Philadelphia - Chester Arthur Schoolyard









PRECEDENTS – AMENITIES









DESIRED OUTCOMES

- Optimize floodplain
- Improve water quality
- Connect corridors
- Maximize land use

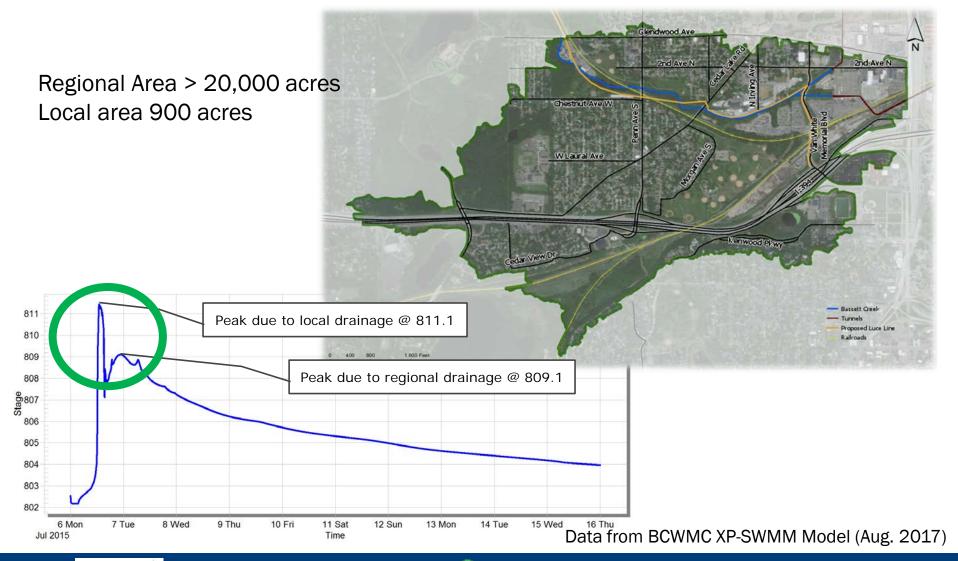
How do we *integrate* all the Existing Plans and Projects?







REGIONAL VS LOCALIZED FLOW









POTENTIAL PROJECT LOCATIONS

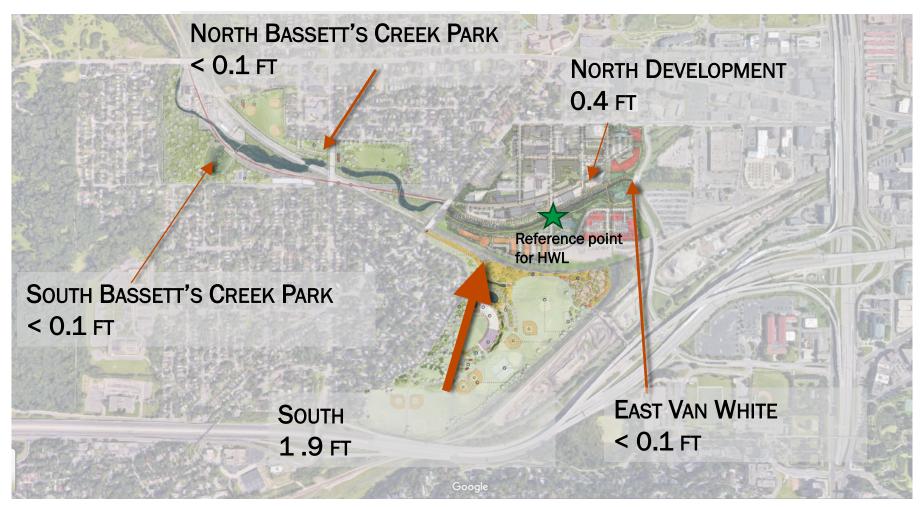








WATERSHED INFLUENCE ON HWL



Data from BCWMC XP-SWMM Model (Aug. 2017)







SITE SUITABILITY









SITE SUITABILITY









BRYN MAWR MEADOWS PARK

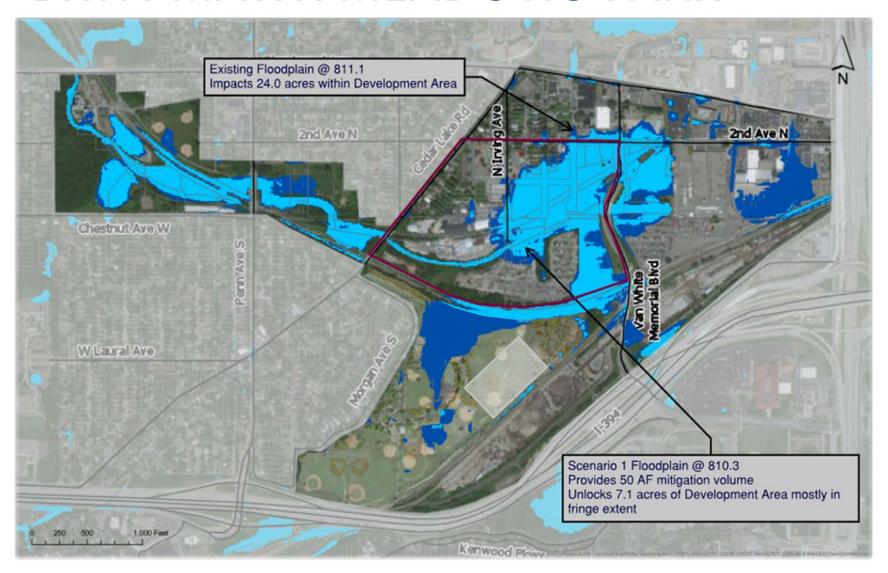








BRYN MAWR MEADOWS PARK









BASSETT CREEK CORRIDOR

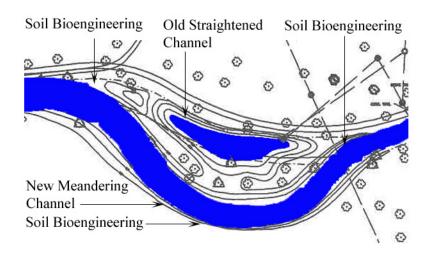


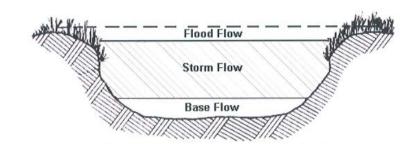


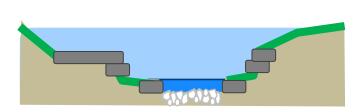




POTENTIAL CHANNEL MODIFICATIONS







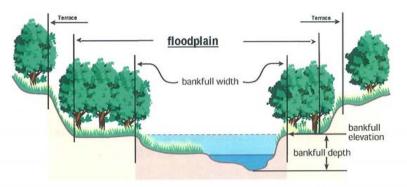


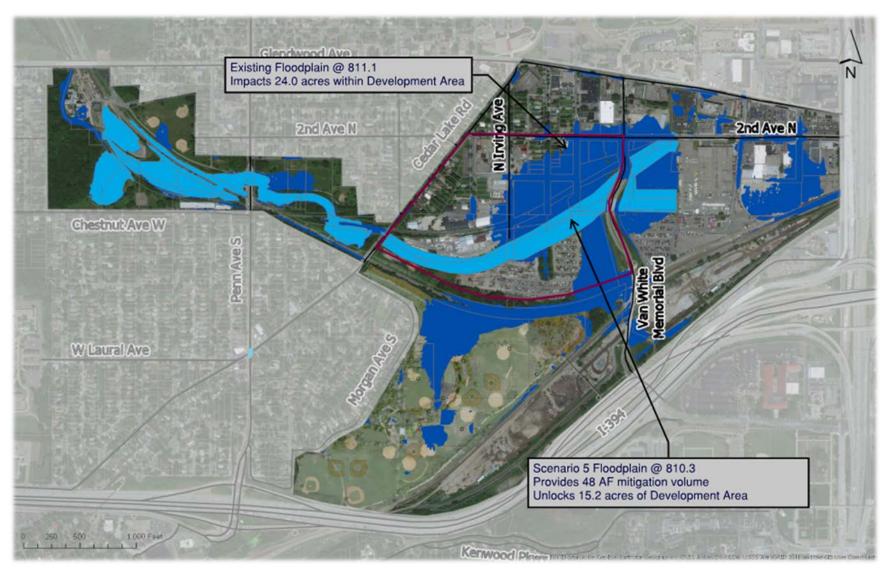
Figure 2.7 Shows a typical cross section of a stream system (USDA-NRCS, 1998)







BASSETT CREEK CORRIDOR









SCENARIO COST

Scenario	Project Type & Location	Mitigation Storage Volume (AF)	Area Unlocked (acres) ⁽²⁾	Flood Elevation (ft)	Estimated Capital Cost (\$M) ⁽²⁾	Cost per Acre Flood Reduction (\$M/ac)
1	Underground in Bryn Mawr	50	7.1	810.3	\$36 - 72.7	5.1 – 10.2
5	New XS in Corridor	48	15.2	810.3	\$3.7 – 7.3 \$10.3 – 20.5	0.24 - 0.48 0.68 - 1.3

¹ Existing condition has 24.0 acres of flooding in Development Area, total area of 60 acres

² Scenarios 5: lower range assumes no soil contamination, upper range assumes all soil contaminated

WHERE ARE WE HEADED?

Denver- The River Mile



Image from Shears Adkins Rockmore Architects







WHERE ARE WE HEADED?

Grand River Corridor, MI









WHERE ARE WE HEADED?

Fort Wayne, IN









NEXT STEPS

- Explore Funding Mechanisms
- Evaluate Byrn Mawr Design Refinement
- Engage DNR for Permitting Needs
- Finalize Contamination Investigation for Impound Lot
- Refine Local & Reginal H&H Models
- Consider Land Acquisitions









Concept View from CPED Pre-redevelopment Study













Responsive partner. Exceptional outcomes.