

Meg Kelly Senior Manager, Space to Grow

Healthy Schools Campaign

Managing Partners Provide/direct school support Community engagement Facilitate partnership



#### HEALTHY SCHOOLS CAMPAIGN

Capital Partners Provide funding, expertise + leadership Equal split of capital Commitment to 34 schoolyards in this phase







Metropolitan Water Reclamation District of Greater Chicago



# Program Goal

Chicago's outdated schoolyards can be transformed into vibrant outdoor places that benefit students, communities, and the environment.



**Health & Wellness** 



**Outdoor Learning** 



**Stormwater Management** 



# Health & Wellness

- Support Chicago Public
   Schools wellness, recess and
   Physical Education policies
- Address high childhood obesity rates
- Create access to green space and play areas





# **Outdoor Learning**

- Spaces designed for handson activities
- Increased awareness of environmental issues
- Improved cognitive development
- Daily connection to nature





### Stormwater Management

- Addressing flooding & pollution issues
- Capturing rain where it falls
- Engaging communities to use best practices





# **Engaging Communities**

- Building strong community relationships
- Forming new partnerships
- Engaging parents
- Supporting the design, use & maintenance of schoolyards







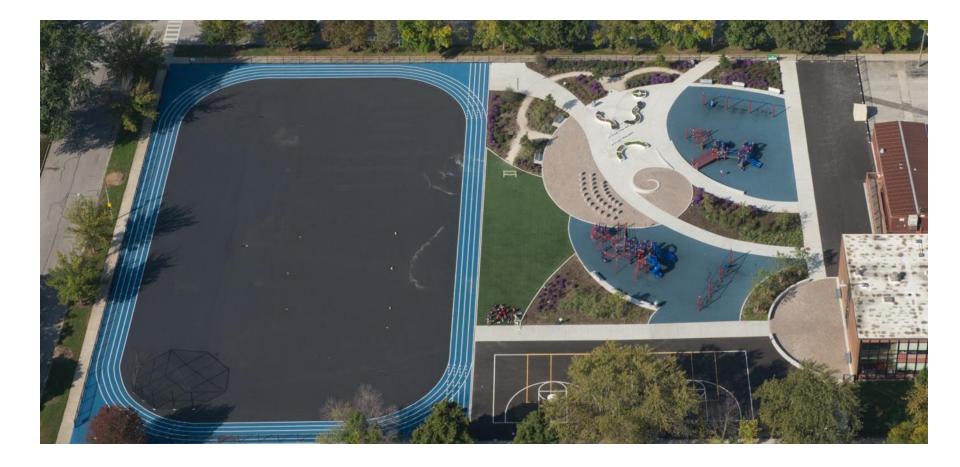
## Grissom





## Grissom





### **Grissom Aerial**





John Watson Civil Engineer in Stormwater



# Stormwater Goals

- Capture as much runoff as possible
- Store, and infiltrate
- Release at a reduced rate of 0.15 cfs/ac
- 2.25" capture required, 3" goal, from all impervious areas of new construction



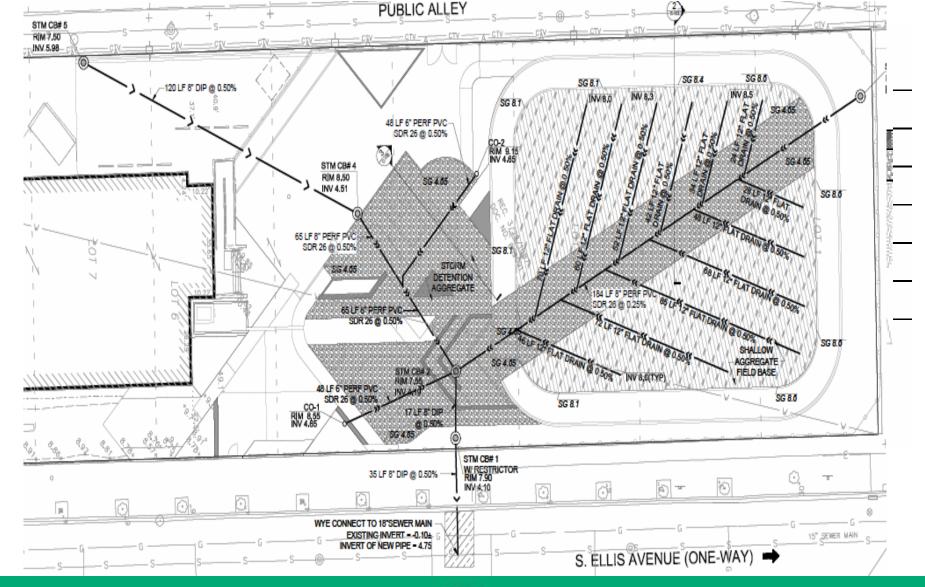


## Design Retention Capacity

- 133,393 gal. total DRC
  - The storage volume below the underdrain
  - The volume of runoff that would be infiltrated from the storage areas during a 6-hour period
    - Underlying soil infiltration rate of 0.65 in/hr, pretty good for around here
  - 50% of the total detention volume.

MWRDGC							
Stormwater	Rete	ention Calculations		KEY			
Appendix				user input			
				calculated		_	
Name of Project:	Wadsv						
Address:	6650 S Elliss Ave, Chicago, IL						
	Biore	etention Area #1 (Permeable Pavement)					
						NOTES	
	6	Design soil infiltration rate					
		101	i	0.65 assume	in/hr	actually	
	7	Elevation of bottom of BMP (the infiltration		separation OK			
	l '	surface) IF there is no underdrain, OR the lowest underdrain invert elevation	ELEVBMP	by engineer	feet		
			C CC V BMP				
	8	Groundwater elevation	5151	separation OK by engineer	feet		
		Death to account are a duate (Must be 2 feet as	ELEV <sub>GW</sub>	by engineer	IEEL		
	9	Depth to seasonal groundwater (Must be 2 feet or greater, or 3.5 feet or greater if draining to					
	1	combined sewer)	D <sub>GW</sub>	OK	feet		
		Section 3 BMP Spe	cifications				
			L		feet	75' at top	
	10	Dimensions of the bioinfiltration facility (length, width, or area)	W		feet	110 wide	
		width, or area)	ABMP	8,655	square feet	taken fro	
	11	Depth of prepared soil	D <sub>1</sub>	0.0	feet		
	12	Prepared soil porosity (0.25 maximum unless					
	12	detailed materials report provided)	P1	0.00	[unitless]		
	13	Depth of underlying aggregate (optional)	$D_2$	2.8	feet	taken fro	
	14	Aggregate porosity (0.38 maximum unless					
		detailed materials report provided)	P <sub>2</sub>	0.38	[unitless]	taken fro	
	15	Surface storage volume (provide supporting					
		calculations, max depth 12 inches)					
		(=0 for projects with no surface storage (CPS))	V <sub>AIR</sub>	0	cubic feet		
		Total media void volume = $A_{BMP} * [(D_1 * P_1) + (D_2)]$					
	16	* P <sub>2</sub> )]					
			V <sub>SOIL</sub>	9,209	cubic feet	I	
		DRC Volume Includin Depth of Prepared Soil <u>Below Drain</u>	g Infiltration				
	20	(if drained, if not drained, total depth of prepared					
	20	soil)	D <sub>3</sub>	0.00	feet		
	21	Soil Void Volume <u>Below Drain</u> = (A <sub>BMP</sub> *D <sub>3</sub> *P <sub>1</sub> )	V3	0.00	cubic feet	-	
	21	Son void volume <u>Below Dram</u> = (A <sub>BNP</sub> <sup>-</sup> D <sub>3</sub> <sup>-</sup> P <sub>1</sub> )	V <sub>3</sub>	U	CUDIC leet		
		Depth of Prepared Aggregate Below Drain					
	22	(if drained, if not drained, total depth of prepared					
		aggregate)					
		(must be less than or equal to total depth, D1+D2)	D <sub>4</sub>	0.50	feet		
		Aggregate Void Volume Below Drain =				1	
	23	(A <sub>BMP</sub> *D <sub>4</sub> *P <sub>2</sub> )	V <sub>4</sub>	1,644	cubic feet		
	24	6-hr infiltrated volume = (i*A <sub>BMP</sub> -5[hrs]/12[in/ft])	V <sub>5</sub>	2,813	cubic feet	1	
	25	50% of Volume Above Drain = 0.5*(VSOIL-V4)	V <sub>6</sub>	3,782	cubic feet	1	
		Total Retained and Infiltration Volume	- 0				
	26	$(V_3+V_4+V_5+V_6+V_{AIR})$	VDRC	8.240	cubic feet		
	27	V <sub>DRC</sub> = Above [in Gallons]	VDRC	61.632	gallons	1	
		e reproduce and add for multiple bioretention areas,			guillona	<u> </u>	









### Wadsworth





### Wadsworth





#### Native and Edible Gardens

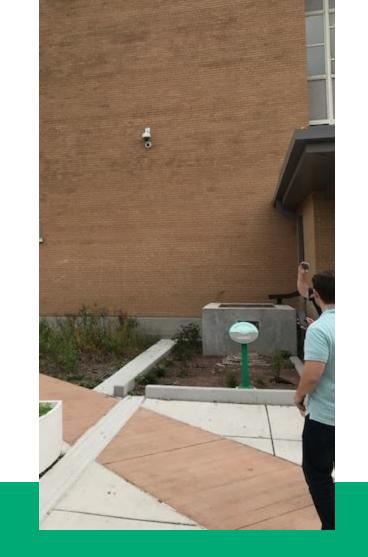




#### Roof Runoff and Runnel



# From roof to cistern to runnel

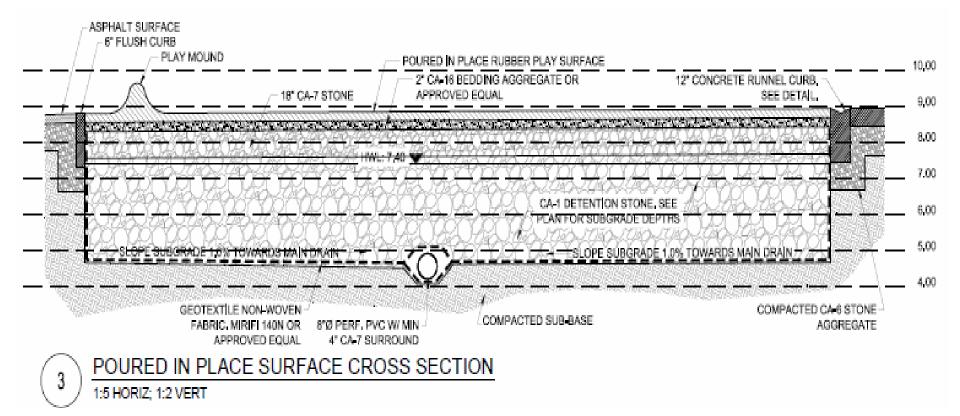






#### Basketball Court and Play Surface





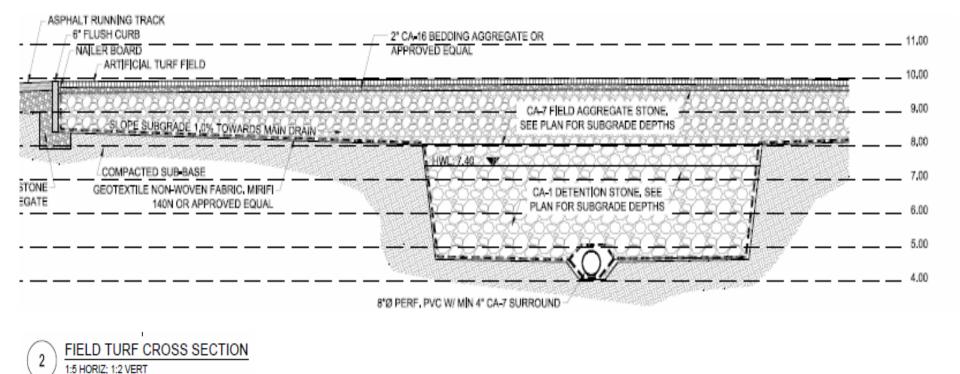
### **Play Surface Cross Section**





### Turf Field and Track





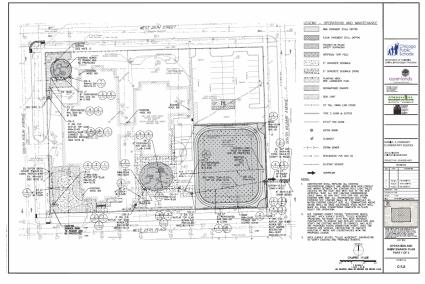
#### **Turf Field Cross Section**





Ted Haffner Landscape Architect

Openlands

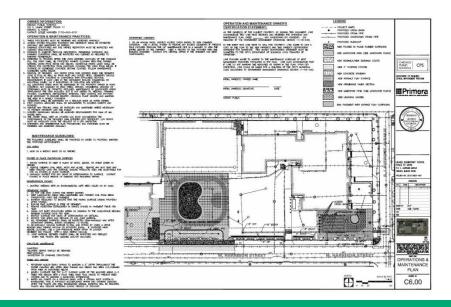


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PEST CONTROL MEASURES SHALL BE IMPLEMENTED TO ADDRESS INJECTS AND RODONTS.	SUPPLER, SORIE USING THE BISINE TO NON MEDILM BRISTLE SCRUE BRUSH, REPEAR THIS PROCESS UNTL. ENTRE SUPPLEE INS BEIN COMPLETELY AND TREMOLOPUT CLAMBED.	2. ADRATING - ROTAT AVGD MINOR COMP 3. SAGNG - FTEMAN LODGENED, FORMA 4. SAFFPING - A CLE	
SIGNAE AND FENCING SHALL BE INSTALLED AND WAINTAINED INFORE NECESSARY TO PROTECT - PROPERTY AND THE PUBLIC.	A INSE THE ENTRY SUBTRIE AREA HIS BEEN GLEARED, RINE TRUNDINGLY USING A GAPEEN HERE MEN ATRONMENT.		
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<ol> <li>PIDPORED NODFLEATIONS TO THE GAM PLAN MUST BE SUBMITTED TO THE DEPARTMENT OF BULIENDS (2000) FOR REVER AND APPROVAL. THE DESTING AND PROFESSED GAM PLANS AND A COPY OF THE ORIGINAL DOB APPROVAL TORN AND PROFESSED GAM THE INFORMATION AND MUST.</li> </ol>	1. PORTORN OLDWARD DURIND DALLY WORKING DR LATE WITERHOOK SO THE OLDWARD WILL HAVE THE TO REACT WITHOUT DAPORATING.	OTHER NEQUSSARY WAR 70 USAGE	
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		2024	

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N.B. F. YRL ARE SUBSCREED TO MANAGER FOR RECOMMENDED GRE INTONNE, ACCEPTARY BRE YEAR.	A FELD EARE PROGRAM, PLEASE DEVERT YOUR FIELD EARE DAMAG FREEZENDES, BROCHING SYSTEMS EQUIPPED MEN SHEE DATUE HE UNITED TO FREEZENDES OF 2-3 THREE FE	
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### PROBLEM

**O&M** procedures based on AOR experience leading to varied and variable O&M tasks





**City of Chicago** 

Stormwater Management Ordinance Manual





January 2016

Dept. of Water Management Thomas H. Powers, PE Commissioner

City of Chicago Rahm Emanuel Mayor

#### A GUIDE TO STORMWATER BEST MANAGEMENT PRACTICES







**City of Chicago** Richard M. Daley Mayor



# SOLUTIONS

- Create a standardized plant list organized by hydrologic and exposure conditions
- Create a template for O&M procedures for CPS Architects of Record use
- Template is organized by intervention type to allow for flexible inclusion/exclusion based on specific site design and schoolyard program.



# O&M TEMPLATE SCOPE ITEMS

- General Considerations
- Structure Maintenance
- Surface Maintenance
- Irrigation Systems
- Landscape Maintenance



#### Chicago Public Schools Space To Grow Program Maintenance Operations and Maintenance Spreadsheet

School	Report Title	Report Item #	Date Logged	Report Date	Maintenance Concern/Issue	Photo Reference Figure #	O&M Sheet Reference	Issue Resolved Date (CPS To Complete)
Grissom	160716_STG_Grissom_1	1	3/8/2016	7/18/2016	Gravel from pavers is loose across the schoolyard.	1	Permeable Pavement Routine Maintenance	
Grissom	160716_STG_Grissom_1	2	3/8/2010	7/18/2016	Remove Gum from playground poured rubber surfacing	2	Poured In Place Playground Surfaces, dashed item #2	
Grissom	160716_STG_Grissom_1	3	3/8/2016	7/18/2016	Remove Black fabric coming up below crushed stone pathway and adjust pathway to be flush with adjacent curb (tripping hazard)	3	N/A: Safety Issue	
Grissom	160716_STG_Grissom_1	4	3/8/2016	7/18/2016	Repair acrylic paint chipping on track	4, 5, 6	Acrylic surface not currently an item on sheet.	
Grissom	160716_STG_Grissom_1	5	3/8/2016	7/18/2016	Remove graffiti on the benches	7,8		
Grissom	160716_STG_Grissom_1	6	3/8/2016	7/18/2016	Black scuff marks on swing poles	9		
Grissom	160716_STG_Grissom_1	7	3/8/2016	7/18/2016	Playground welcome sign is hung upside down	10	Operations and Maintenance Practices, dashed item #7	
Grissom	160716_STG_Grissom_1	8	4/14/2016	7/18/2016	The edges of the bioretention area are bare	11	Operations and Maintenance Practices, dashed item #5, Plant Maintenance Specifications 1.ii	
Grissom	160716_STG_Grissom_1	9	4/14/2016	7/18/2016	Graffiti/doodles on one of the TKC beds	12		
Grissom	160716_STG_Grissom_1	10	5/18/2016	7/18/2016	Remove exposed erosion control netting	13		
Grissom	160716_STG_Grissom_1	11	5/18/2016	7/18/2016	Adjust pavers at concrete to remove tripping hazard	14	N/A: Safety Issue	
Grissom	100710_STG_Grissom_1	12	5/18/2016	7/18/2016	Repair/patch hole in asphalt basketball court	15	N/A: Safety Issue	
Grissom	160716_STG_Grissom_1	13	5/18/2016	7/18/2016	Weed bioswales and plantng beds	16,17,18	Operations and Maintenance Practices, dashed item #5, Plant Maintenance Specifications 1.ii	
Grissom	160716_STG_Grissom_1	14	5/18/2016	7/18/2016	No water to exterior spiggot. STG confirmed line to outside is in working order from inside building.	19		







Figure 10: Playground welcome sign is hung upside down. Reference: Spreadsheet Item 7 Figure 11: The edges of the bioretention area are bare. Reference: Spreadsheet Item 8

Reference: Spreadsheet Item 11

Figure 12: Graffit/doodles on one of the TKC bed Reference: Spreadsheet hem 9







Reference: Spreadsheet item 12

