

Training Field/Winthrop Square Community Update

March 10, 2015

Park elements addressed in project:

Drainage/Erosion

Vegetation

Hardscape

Fences and Curbs

Park Furnishings

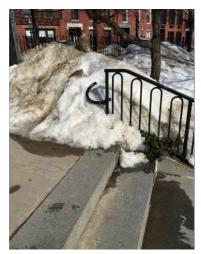
Access

Infrastructure

New: Address winter damage











Winter damage



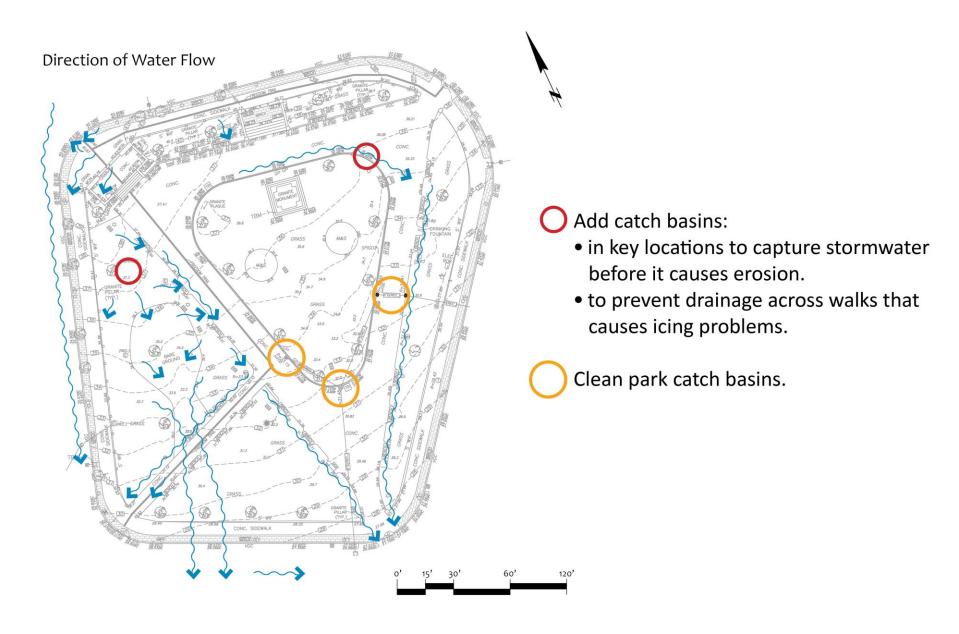








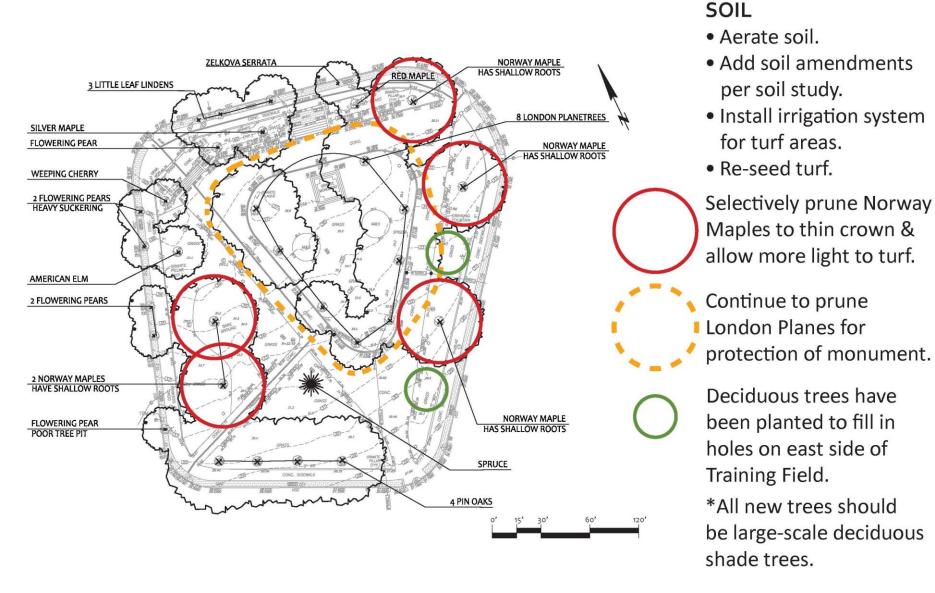
Site Analysis: Drainage/Erosion



Recommendations: Drainage/Erosion

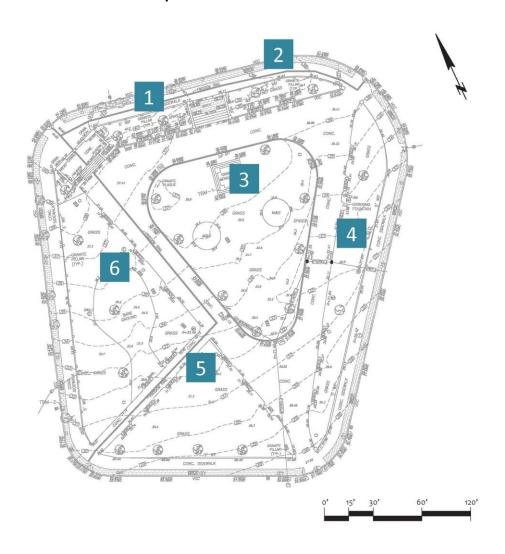


Site Analysis: Vegetation (trees, shrubs, turf)



Recommendations: Vegetation

Boston Parks contracted with Dr. Charles D. Sherzi, Jr. to prepare a soil health assessment report.



Soil Health Test Areas

	CORNELL S	SOIL HI	EALTH	TEST REPORT	
Name of Farmer: Chuck Sherzi, Jr.				Sample ID: k105	
Loc	ation: One Cottage Rd., Andover, M	Agent: 0			
Fiel	d/Treatment: Sample-Area #1 Winth	rop Square,	Charlestow	n Agent's Email: 0	
Till:	age: 0	Given Soil Texture: 0			
Cro	ps Grown: 0		-	Date Sampled: 6/20/2013	
	Indicators	Value	Rating	Constraint	
- 7	Aggregate Stability (%)	65.9	95		
PHYSICAL	Available Water Capacity (m/m)	0.25	96		
PHYS	Surface Hardness (psi)	475	0	rooting, water transmission	
	Subsurface Hardness (psi)	518	2	Subsurface Pan/Deep Compaction	
AL.	Organic Matter (%)	3.8	67		
	Active Carbon (ppm) [Permanganate Oxidizable]	482	38		
BIOLOGIC	Potentially Mineralizable Nitrogen (µgN/ gdwsoil/week)	4.4	1	N Supply Capacity	
_	Root Health Rating (1-9)	3.3	.75		
_	pH (see Nutrient Analysis Report)	6.3	100		
HCAL	Extractable Phosphorus (see Nutrient Analysis Report)	17.2	100		
CHEMIC	Extractable Potassium (see Nutrient Analysis Report)	79.6	100		
•	Minor Elements (see Nutrient Analysis Report)		100		
	OVERALL QUALITY SCORE (OU	T OF 100):	64.4	Medium	
	Soil Textural Class:==> SAND (%):		m SILT (%):	: 35.9 CLAY (%): 7.5	

Nan	ne of Farmer: Chuck Sherzi, Jr.			Sample ID: k105
Location: One Cottage Rd., Andover, MA, 01813				Agent: 0
Field/Treatment: Sample-Area #4 Winthrop Square, C			Charlestow	n Agent's Email: 0
Till	age: 0			Given Soil Texture: 0
Cra	ops Grown: 0			Date Sampled: 6/20/2013
	Indicators	Value	Rating	Constraint
_	Aggregate Stability (%)	66.9	95	
PHYSICAL	Available Water Capacity (m/m)	0.19	82	
PHY	Surface Hardness (psi)	295	8	rooting, water transmission
	Subsurface Hardness (psi)	337	41	
_	Organic Matter (%)	4.2	75	
GICA	Active Carbon (ppm) [Permanganate Oxidizable]	382	2.3	Soil Biological Activity
BIOLOGICAL	Potentially Mineralizable Nitrogen (µgN/ gdwsoil/week)	4.7	1	N Supply Capacity
	Root Health Rating (1-9)	5.7	50	
_	pH (see Nutrient Analysis Report)	5.3	0	Toxicity, Nutrient Availability (for crop specific guide, see CNAL report
HCA	Extractable Phosphorus (see Nutrient Analysis Report)	19.7	100	
CHEMICAL	Extractable Potassium (see Nutrient Analysis Report)	80.3	100	
_	Minor Elements (see Nutrient Analysis Report)		11	More than one minor- or/and micro- nutrient deficiencient or excessive
	OVERALL QUALITY SCORE (OU	T OF 100):	48.9	Low

Name of Farmer: Chuck Sherzi, Jr.				Sample ID: k105	
Location: One Cottage Rd., Andover, MA, 01811			Agent: 0		
Fiel	d/Treatment: Sample-Area #2 Winth	rop Square,	, Charlestow	u Agent's Email: 0	
Tillage: 0			Given Soil Texture: 0		
Cro	ps Grown: 0			Date Sampled: 6/20/2013	
40	Indicators	Value	Rating	Constraint	
	Aggregate Stability (%)	48.0	75		
PHYSICAL	Available Water Capacity (m/m)	0.20	83		
PHY	Surface Hardness (psi)	362	1	rooting, water transmission	
	Subsurface Hardness (psi)	475	5	Subsurface Pan/Deep Compaction	
_	Organic Matter (%)	3.8	67	- 11	
GICA	Active Carbon (ppm) [Permanganate Oxidizable]	504	41		
BIOLOGICAL	Potentially Mineralizable Nitrogen (µgN/ gdwsoil/week)	6.5	8	N Supply Capacity	
	Root Health Rating (1-9)	6.3	38		
_	pH (see Nutrient Analysis Report)	5.1	0	Toxicity, Nutrient Availability (for crop specific guide, see CNAL report	
IICA.	Extractable Phosphorus (see Nutrient Analysis Report)	20.6	100		
CHEMICAL	Extractable Potassium (see Nutrient Analysis Report)	82.1	100		
Ĭ	Minor Elements (see Nutrient Analysis Report)		11	More than one minor- or/and micro- nutrient deficiencient or excessive	
	OVERALL QUALITY SCORE (OU	T OF 100):	44.1	Low	

Nan	ne of Farmer: Chuck Sherzi, Jr.		Sample ID: k106		
Loc	ation: One Cottage Rd., Andover, M	Agent: 0			
Fiel	d/Treatment: Sample-Area #5 Winth	rop Square,	Charlestow	n Agent's Email: 0	
Tillage: 0				Given Soil Texture: 0	
Cro	ps Grown: 0			Date Sampled: 6/20/2013	
	Indicators	Value	Rating	Constraint	
,	Aggregate Stability (%)	70.9	97		
PHYSICAL	Available Water Capacity (m/m)	0.21	88		
PHYS	Surface Hardness (psi)	452	0	rooting, water transmission	
	Subsurface Hardness (psi)	505		Subsurface Pan/Deep Compaction	
7	Organic Matter (%)	4.1	78		
GICA	Active Carbon (ppm) [Permanganate Oxidizable]	456	33		
BIOLOGICAL	Potentially Mineralizable Nitrogen (µgN/ gdwsoil/week)	1.0	0	N Supply Capacity	
_	Root Health Rating (1-9)	5.0	50		
,	pH (see Nutrient Analysis Report)	4.7	0	Toxicity, Nutrient Availability (for crop specific guide, see CNAL report	
IICA	Extractable Phosphorus (see Nutrient Analysis Report)	18.4	100		
CHEMICAL	Extractable Potassium (see Nutrient Analysis Report)	62.1			
_	Minor Elements (see Nutrient Analysis Report)		11	More than one minor- or/and micro- nutrient deficiencient or excessive	
	OVERALL QUALITY SCORE (OU	JT OF 100):	43.9	Low	

Nan	ne of Farmer: Chuck Sherzi, Jr.			Sample ID: k10:	
Location: One Cottage Rd., Andover, MA, 01812				Agent: 0	
Fiel	d/Treatment: Sample-Area #3 Winth	rop Square,	Charlestow	n Agent's Email: 0	
Tillage: 0				Given Soil Texture: 0	
Cre	ps Grown: 0			Date Sampled: 6/20/2013	
	Indicators	Value	Rating	Constraint	
,	Aggregate Stability (%)	79.5	99		
PHYSICAL	Available Water Capacity (m/m)	0.19	70		
PHY	Surface Hardness (psi)	258	16	rooting, water transmission	
	Subsurface Hardness (psi)	275	67		
N.	Organic Matter (%)	4.8	86		
	Active Carbon (ppm) [Permanganate Oxidizable]	445	32		
BIOLOGIC	Potentially Mineralizable Nitrogen (µgN/ gdwsoil/week)	8.2	29	N Supply Capacity	
_	Root Health Rating (1-9)	5.0	50		
	pH (see Nutrient Analysis Report)	4.7	0	Toxicity, Nutrient Availability (for crop specific guide, see CNAL repor	
CHEMICAL	Extractable Phosphorus (see Nutrient Analysis Report)	13.2	100		
CHEN	Extractable Potassium (see Nutrient Analysis Report)	92.9	100		
_	Minor Elements (see Nutrient Analysis Report)		56		
	OVERALL QUALITY SCORE (OU	T OF 100):	59.5	Medium	

Name of Farmer: Chuck Sherzi, Jr.				Sample ID: k		
Name of Farmer: Chuck Sherzi, Jr.				2		
Location: One Cottage Rd., Andover, MA, 01815			Agent: 0			
Field/Treatment: Sample-Area #6 Winthrop Square, C			Charlestown	Agent's Email: 0		
Tillage: 0				Given Sail Texture: 0		
Cro	ops Grown: 0			Date Sampled: 6/20/2013		
	Indicators	Value	Rating	Constraint		
	Aggregate Stability (%)	59.2	90			
PHYSICAL	Available Water Capacity (m/m)	0.21	87			
PHY	Surface Hardness (psi)	420	0	rooting, water transmission		
	Subsurface Hardness (psi)	510		Subsurface Pan/Deep Compaction		
AL.	Organic Matter (%)	3.9				
	Active Carbon (ppm) [Permanganate Oxidizable]	238	y	Soil Biological Activity		
BIOLOGIC	Potentially Mineralizable Nitrogen (µgN/ gdwsoil/week)	11.7	87			
_	Root Health Rating (1-9)	5.3	50			
٦	pH (see Nutrient Analysis Report)	4.6	0	Toxicity, Nutrient Availability (for crop specific guide, see CNAL report		
CHEMICAL	Extractable Phosphorus (see Nutrient Analysis Report)	21.3	100			
CHEN	Extractable Potassium (see Nutrient Analysis Report)	77.7	100			
	Minor Elements (see Nutrient Analysis Report)		11	More than one minor- or/and micro- nutrient deficiencient or excessive		
	OVERALL QUALITY SCORE (OU		50.5	Low		
	Soil Textural Class:==> SAND (%):	100000	m SILT (%):	31.9 CL4Y(%): 8.8		

- Two of the areas (1 & 3) received an overall quality score of medium with the remaining four areas receiving a low quality score.
- All areas have good stable aggregates and high available water capacity.
- Surface (0 6" deep) and subsurface (6 18" deep) soils are significantly compacted around site.
- Soil microbial activity is marginalized around site due to low amount of active carbon (fresh organic residues).
- The amount of heavy metals in all areas is below the maximum allowable concentrations for garden soil.
- Many areas exhibit signs of soil erosion and exposed roots.

Observations: Soil

Address soil compaction issues through:

- Air spading
- Vertical composting
- Radial trenching
- Soil Amendments



Recommendations: Soil





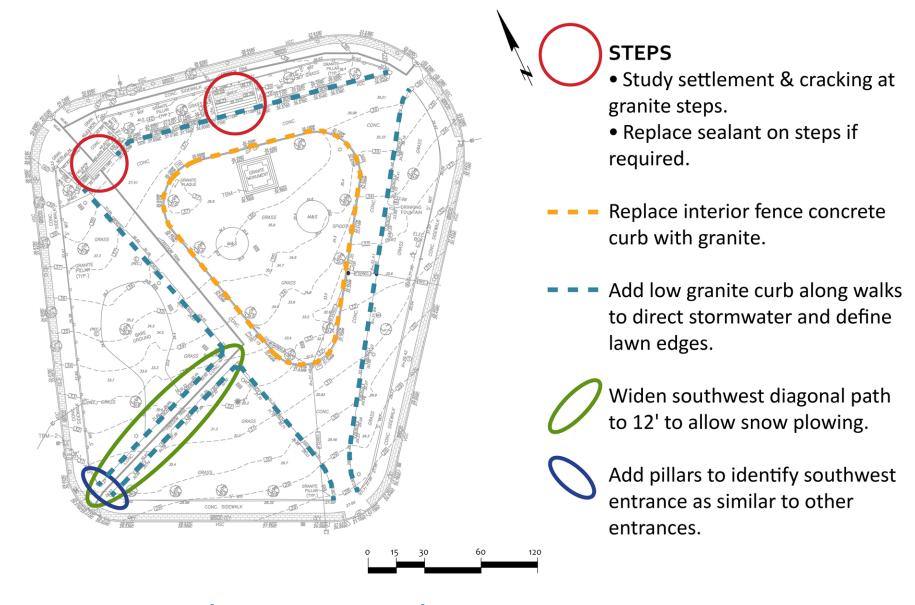








Site Analysis: Hardscape (pavement, curbs, steps)



Recommendations: Hardscape





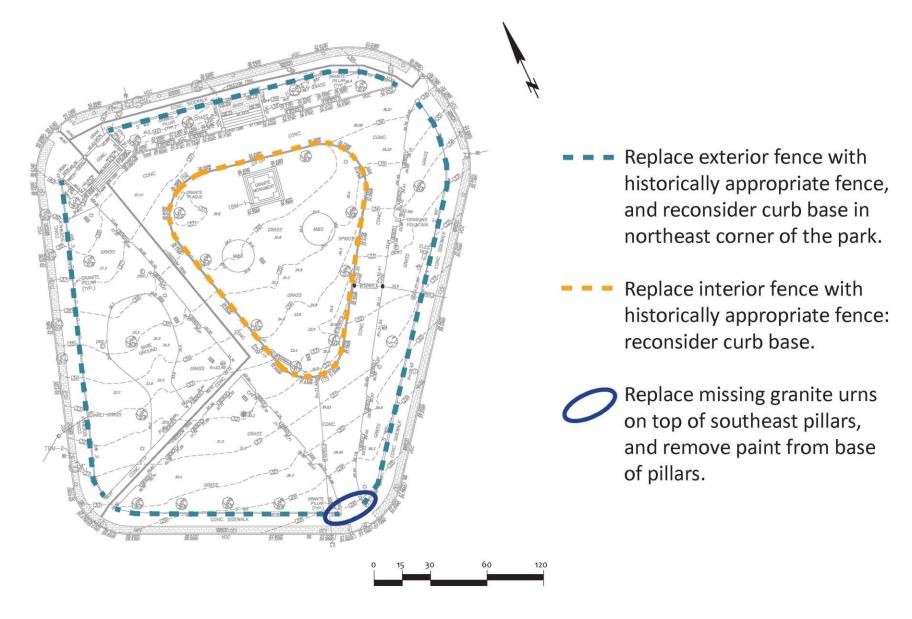








Site Analysis: Historic Features (monuments, tablets, fencing)



Recommendations: Monuments, Tablets, Fencing & Curbs



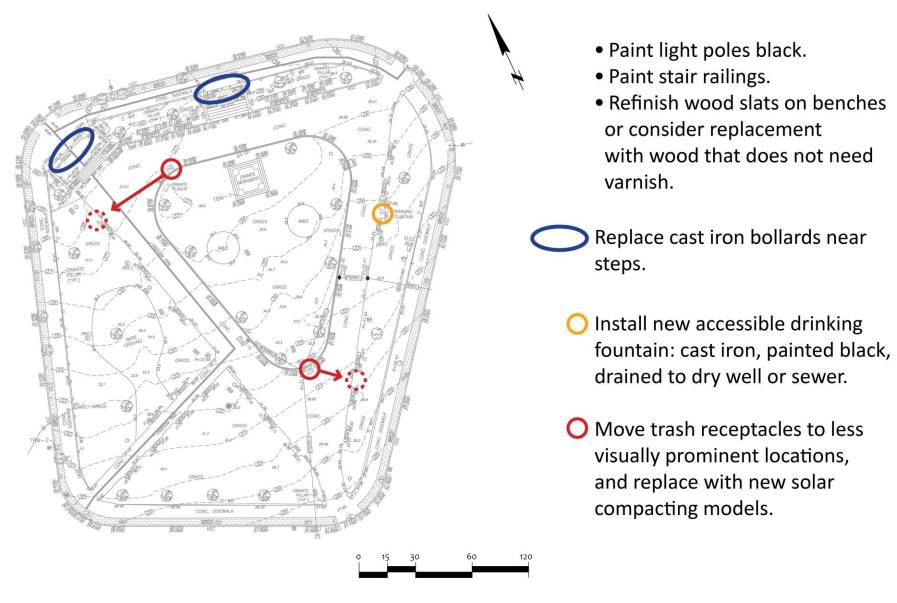








Site Analysis: Park Furnishings (benches, trash receptacles, signage)

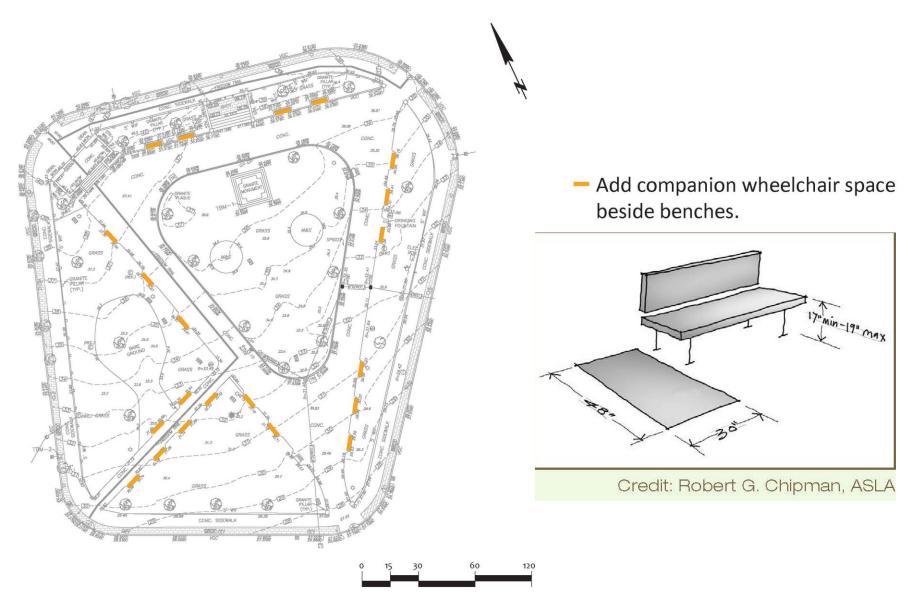


Recommendations: Furnishings



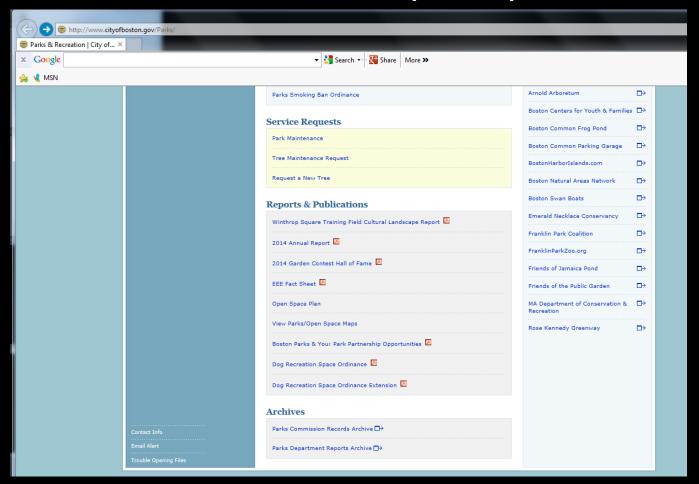


Site Analysis: Use, ADA Considerations



Recommendations: Use, ADA Considerations

Cultural Landscape Report



http://www.cityofboston.gov/Parks/
Reports and Publications

Project Schedule:

Cultural Landscape Plan

Analysis and Community Meeting Summer 2013

Archeological Survey

Recommendations and Community Meeting Fall 2014

Report available February 2014

Budget Request Winter 2014

Budget Approved Summer 2014

(included in city's 5 year plan)

Community Advocacy Fall 2014

Designer Contract executed Winter 2015

Construction Documents Winter/Spring 2015

Construction Contract Bid Late Spring 2015

Mobilization Summer 2015

Typical duration of construction 4-6 months*

*Custom stonework and fence fabrication lead times may affect duration.

Questions and Answers