

Report of Findings



City of New York

East Side Coastal Resiliency Elevated Park Alternative Feasibility Analysis

April 24-26, 2018



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Prepared for:

City of New York Office of Management and Budget
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SECTION 1


SUMMARY OF FINDINGS



SECTION 1

SUMMARY OF FINDINGS

On April 24-26, 2018, a collaborative effort among East Side Coastal Resiliency project stakeholders ORR, DPR, DOT, DEP, OMB, DDC, and Law convened along with the AKRF/KSE Joint Venture and members of the value engineering team. The purpose of the working group was to review the feasibility of the alternative to elevate East River Park in lieu of the baseline approach of building a floodwall along the FDR, and to facilitate a more-detailed comparison between the two schemes. This Narrative will summarize the results of that effort.



Flood Protection

The proposed alternative elevates and protects much of East River Park, which is made possible by significant changes to three key project constraints: reconstructing the esplanade, installing a floodwall inshore of the esplanade, and reconstructing portions of the Park previously required to remain as existing. A structural flood protection intervention is required along the eastern edge in order to maintain Park program and accessibility – including both universal access for pedestrians and vehicular access for maintenance and emergencies. The western edge of the park is raised adjacent to the shared use path and would remain elevated to the flood protection structure inshore of the esplanade. The Park would meet existing grades and the flood protection would tie into the baseline alignment at the northern and southern limits of the Park. At the northern limit, a new swing gate will probably be required for this transition, while at the southern limit there would be an earthen berm with a clay core and sheet pile wall to transition to the area near the amphitheater site.

The flood protection would be achieved by driving a new steel sheet pile floodwall adjacent to, and inshore of, the existing esplanade structure (minimum of approximately 40 feet from east edge of the esplanade). In addition to providing flood protection, this wall would serve as a retaining structure for the park grading and would act as a seepage barrier. The floodwall may protrude above grade in some locations (exposed height varies). This wall would be integrated into Park landscaping features.

Access

The shared use path is to remain at grade at its existing alignment in order to leave the Con Edison lines in place. With this alternative, design energy would have to be focused on the shared use path experience to ensure that this highly-used bicycle and pedestrian facility is a positive experience. The Delancey Street and East 10th Street Bridges would be replaced as proposed in the baseline design, though the span would be extended an additional 45 feet to span the at-grade shared use path and land in the elevated park area. New 45-foot span structures would also be



introduced at the Houston Street overpass to cross the at-grade shared use path and at the Cherry Street Bridge if the amphitheater is to be reconstructed. Maintenance vehicles will be able to travel on the reconstructed esplanade as well as the shared use path. Vehicular access across the park and connecting these two paths will be provided by a series of sloped paths between ball fields and program areas similar to the baseline proposal.

Constraints

Active participation from the various City stakeholders enabled the group to challenge and obtain concurrence to modify certain baseline constraints. The following constraints were changed:

- The Esplanade was allowed to be modified
- The piers under the Williamsburg Bridge may be buried with fill as necessary
- The 6th Street Track & Field Facility may be demolished and reconstructed
- The Tennis House may be demolished and reconstructed
- The LESEC Composting Facility may be re-designed and constructed after ESCR
- The Con Edison lines will be left in place with no tunnel constructed, which requires the shared use path to be left at grade and in the current alignment.

The following constraints were maintained:

- The East River Park program will be the same as in the baseline alternative
- The Flood protection design criteria remains unchanged – el. 16.5' design height
- The Flood protection vegetation offset is required at a distance of 15' clear from trees/woody vegetation on either side of floodwall
- The Pier 42 project is assumed to remain in place and will be constructed before ESCR, which requires a floodwall along the FDR Drive-side of the Pier 42 project
- The project will tie into the existing grades at the north end of East River Park

Adjustments to Buildings

To be replaced as part of Alternative:

- Tennis house – 1250 SF. Function: houses tennis manager (required for permitted access to tennis courts) and restrooms.
- Track Facility – 4400 SF. Function: East River Park maintenance operations headquarters, storage, and restrooms.



Grading

In general, the low point of the park will be the shared use path along the FDR Drive. Moving west to east, the park elevation would then be raised with two 3-foot retaining walls to a varying height, typically ranging between el. 14.5' to 18.5'. The park remains raised across its width, meeting the flood protection elevation of 16.5' inshore of the esplanade. The esplanade grade will vary between 14.5' and 16.5' along its length. [REDACTED]

Proposed Refinements to the Bulkhead and Esplanade

Proposed Sheetpile Flood Protection Wall

The Elevated Park would raise the grade of the Park from about El. 8.5 to about El. 16.5. Consequently, the Elevated Park adjustments include a steel sheetpile wall to retain the new fill. The sheetpile wall would actually serve three functions:

- Retains the new fill
- Provides a deep seepage cutoff wall
- Provides flood and wave protection

The sheet pile wall would be below grade and as such, it is not subject to corrosion from wave action during flood events.

At this time, it is not clear whether the function of a deep seepage cutoff is actually needed. Additional geotechnical analyses should be conducted to determine if there is truly a risk of seepage during the design flood event. Considering the width of the park (of 200 to 400 feet) the risk of seepage seems quite small.

For preliminary cost estimating purposes, the proposed steel sheetpile wall would have tip elevations of about El. -35 to El. -40 feet. Its length is about 6,000 lineal feet. The sheet size is AZ-36, although a smaller size can probably be used subject to further design. The sheetpile can be designed as a cantilever structure.

The existing esplanade consists of two structure types. The outboard structure is a concrete deck supported on steel pipe piles. The outboard structure is reportedly 10 to 12 years old. The inboard structure is an older, timber-pile relieving platform. This inboard structure is scheduled for rehabilitation to repair voids and encase the piles in concrete.

The outboard structure was designed for a live load of 300 psf and a vehicular load of HS-20 which would allow access by various maintenance trucks and emergency vehicles. It is recommended that the new elevated outboard esplanade be designed to carry similar loads as the original.

Partial Structural Reconstruction of Esplanade

In addition to the sheetpile flood protection wall, the Alternative would include raising the level of the esplanade to el. 16.5' by reconstructing a new deck on new



girders in order to meet the park elevation and maintain the same program area of the Park.

Existing 24 inch diameter pipe piles and existing concrete pile caps can be maintained. Following local removal of the existing deck slab and hollow core planks, new deep AASHTO concrete girders would be installed in alignment with the existing piles. A new concrete deck would span from girder to girder, perpendicular to the River. The existing soldier pile-supported retaining wall would be increased in height. A new steel sheetpile wall, deadman and integral flood barrier would be installed. The pile caps would be connected to a new deadman with tie rods.

This would allow 100 to 200 psf of pedestrian load, as well as HS 20 vehicle. No other significant loading or planting would be recommended. The length of the bulkhead is about 5000 to 6000 LF of reconstructed structure.

Utilities and Electrical

The original concept is to replace only portions of existing NYC DEP branch interceptor sewers beneath East River Park with fill over them, retaining most of the existing sewers and all existing regulators, which were only to be hardened.

The alternative concept is to retain existing NYC DEP branch interceptor sewers within the park using lightweight fill, raising sewer manholes to proposed grades and replacing or modifying regulators to meet proposed grades. Allowances have been added for replacement of damaged sewer pipe sections, and for guniting or lining of significant length of sewers.

Some advantages of this alternative concept include retaining the existing NYC DEP sewers by using lightweight fill. This will not increase loading on sewers. Also, lining of pipes will extend service life and avoid expense of full replacement of sewers in this project.

Electrical Utilities

Under the Baseline and the Elevated Park Alternative, electrical utilities infrastructure work will be similar, except that in the Elevated Park, it will not need to be hardened to withstand a prolonged submerged condition. Additional light poles will be needed for the elevated esplanade.

Risk Comparison

Con Edison Tunnel

The Elevated East River Park Proposal was generated in response to concerns regarding the level of risk posed by the inclusion of the Con Edison utility tunnel in the baseline design. The Con Edison tunnel presents the most significant risk to the project. This risk could result in significant project cost and a prolonged construction schedule. The VE Team believed that this cost is not sufficiently reflected in either the baseline schedule or the cost estimate. They saw the risks as follows:



1. Under normal circumstances a tunnel for the high-tension transmission lines would be built first and the transmission cables and auxiliary pipes installation would follow, not the other way around. [REDACTED]

[REDACTED] All work will involve manual excavation around each – no machinery will be allowed to be used. [REDACTED]

2. [REDACTED]
3. Based on the tunnel cross section information included in the 40% plans, [REDACTED] each pipe may need an individual support structure – possibly as close as every 5 feet.
4. Special attention should be given to positioning the new tunnel around the Con Edison transmission lines in order to maintain a safe passage through the tunnel by the repair/maintenance personnel. [REDACTED]

[REDACTED]

Adoption of the proposed alternative would avoid the risks involved in shielding the Con Edison high tension lines in East River Park.

FDR Drive

Impacts to the FDR Drive would be dramatically reduced by adoption of the Elevated Park Alternative. Night construction in four-hour increments would no longer be necessary, dramatically shortening the construction of the flood protection and lessening community impacts. With the Elevated Park Alternative, all flood protection components occur within the Park.

[REDACTED]

[REDACTED]



Fill Sourcing

The quantity of fill is higher in the Alternative proposal than it is in the Baseline design, which increases the risk that fill will be difficult to source.

Permitting

The Elevated Park Proposal will require DEC permitting for the elevated bulkhead. This is a known process for Parks and other agencies, and the process can be started shortly after the decision is made.

Impacts on Design Schedule

Redesign is required to bring the concept of the Elevated Park to the current level of design. Preparation of the EIS will be the critical path for the design schedule. The expenditure of the HUD funding, whether partial or in full, requires certification of the EIS.

Recommended Plan to Encumber the HUD Funding

To accelerate the design and construction of the project, the following approach could be adopted:

- I [REDACTED]
- I [REDACTED]
- I [REDACTED]
- I [REDACTED]
- I [REDACTED]
- I [REDACTED]

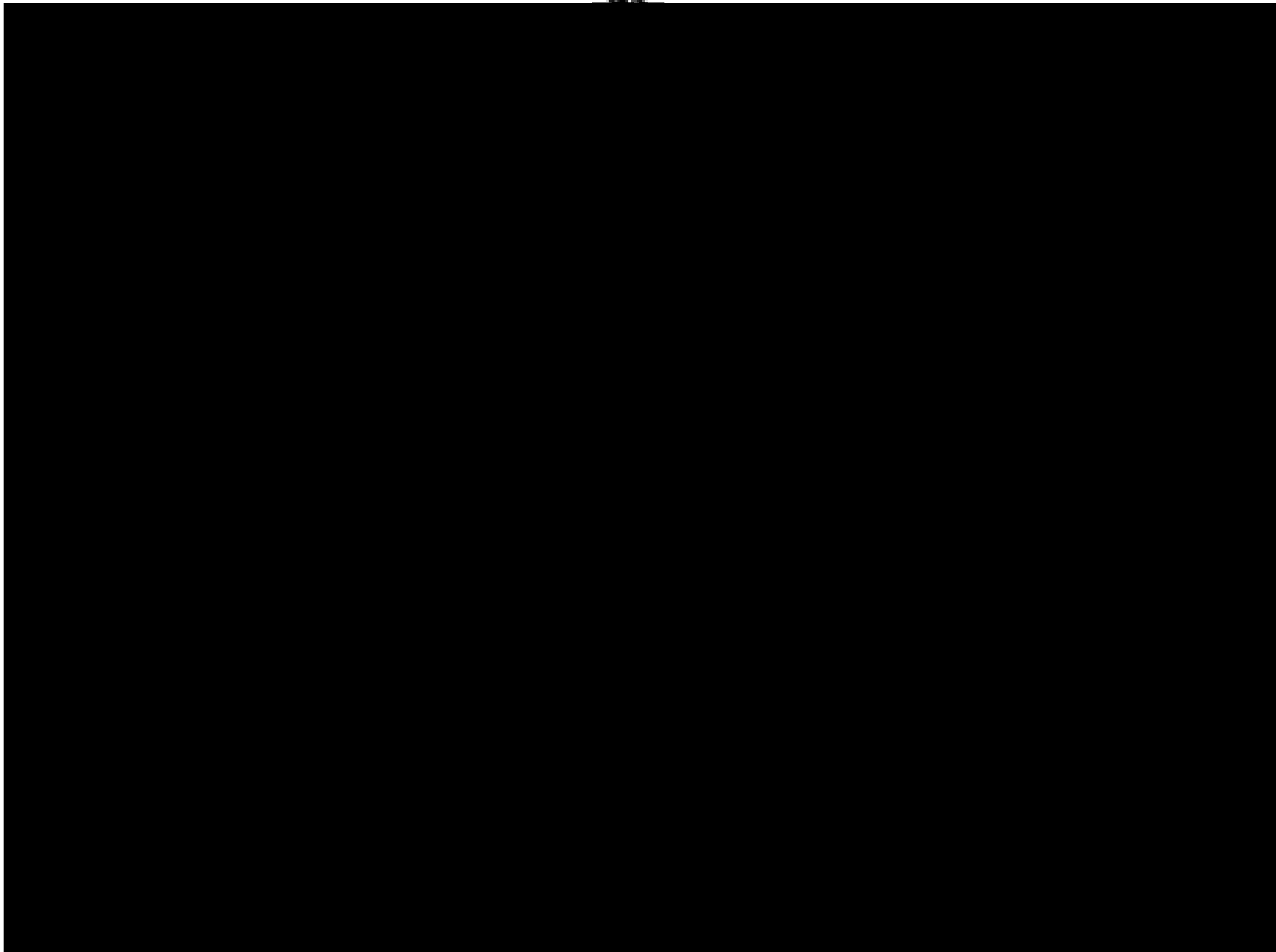
Conclusion

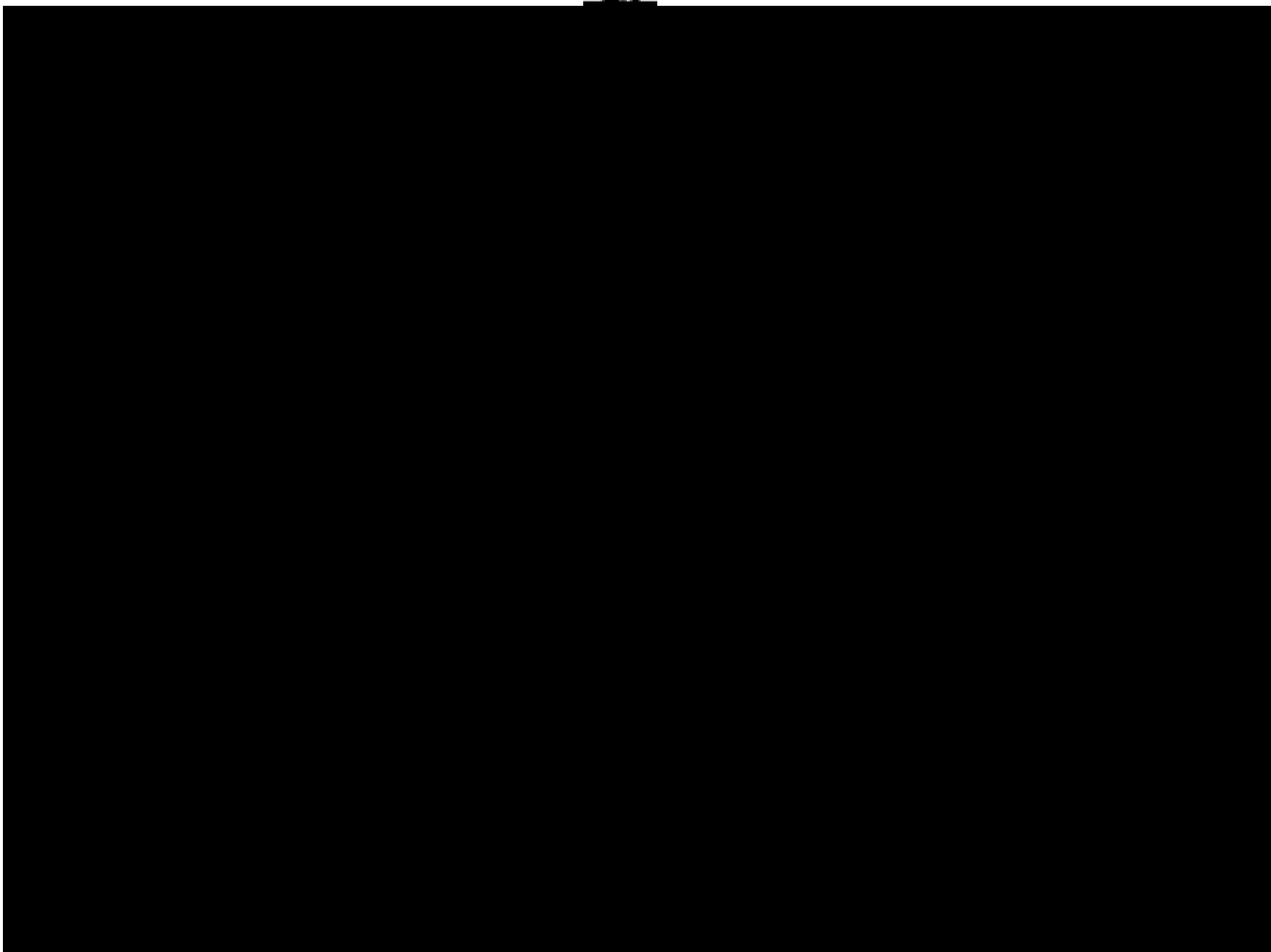
The assembled working group of city agency representatives, design team and VE team members collectively examined the feasibility of the Elevated Park Alternative, and determined that, with some adjustments to assumptions, it is achievable.

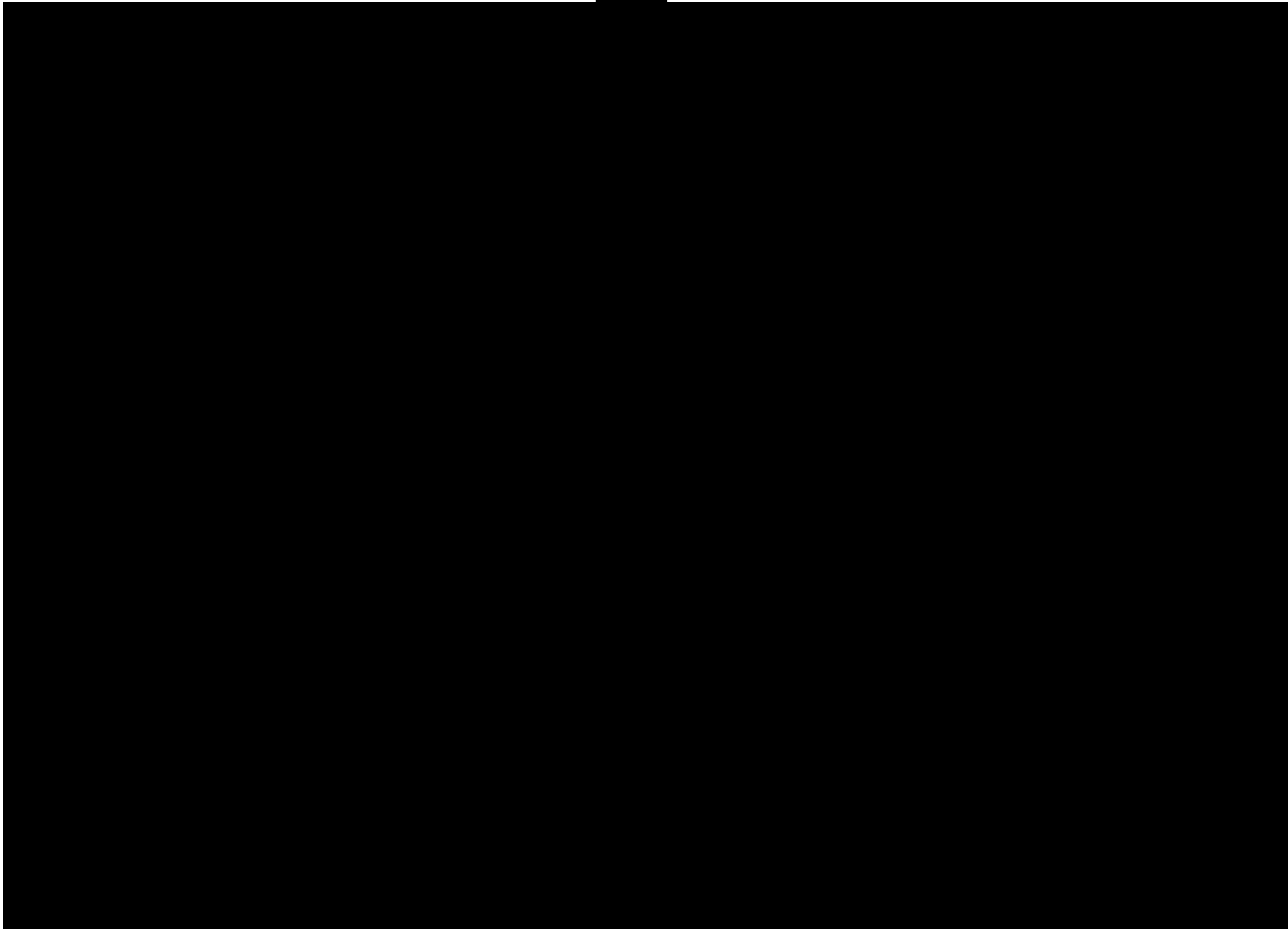
The additional cost for the Alternative is allocated to Park longevity and reduction of risk to the Project.

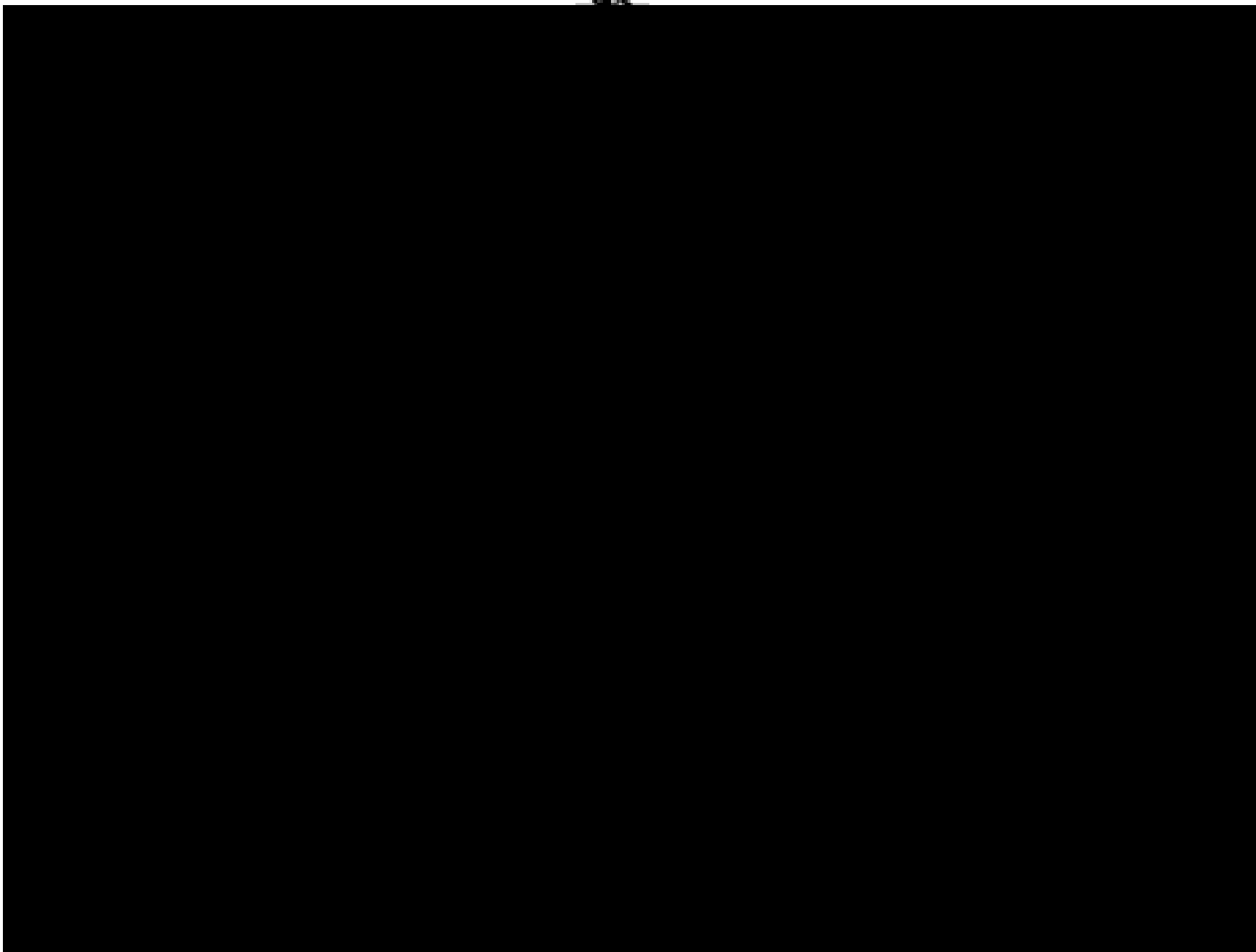
SECTION 2

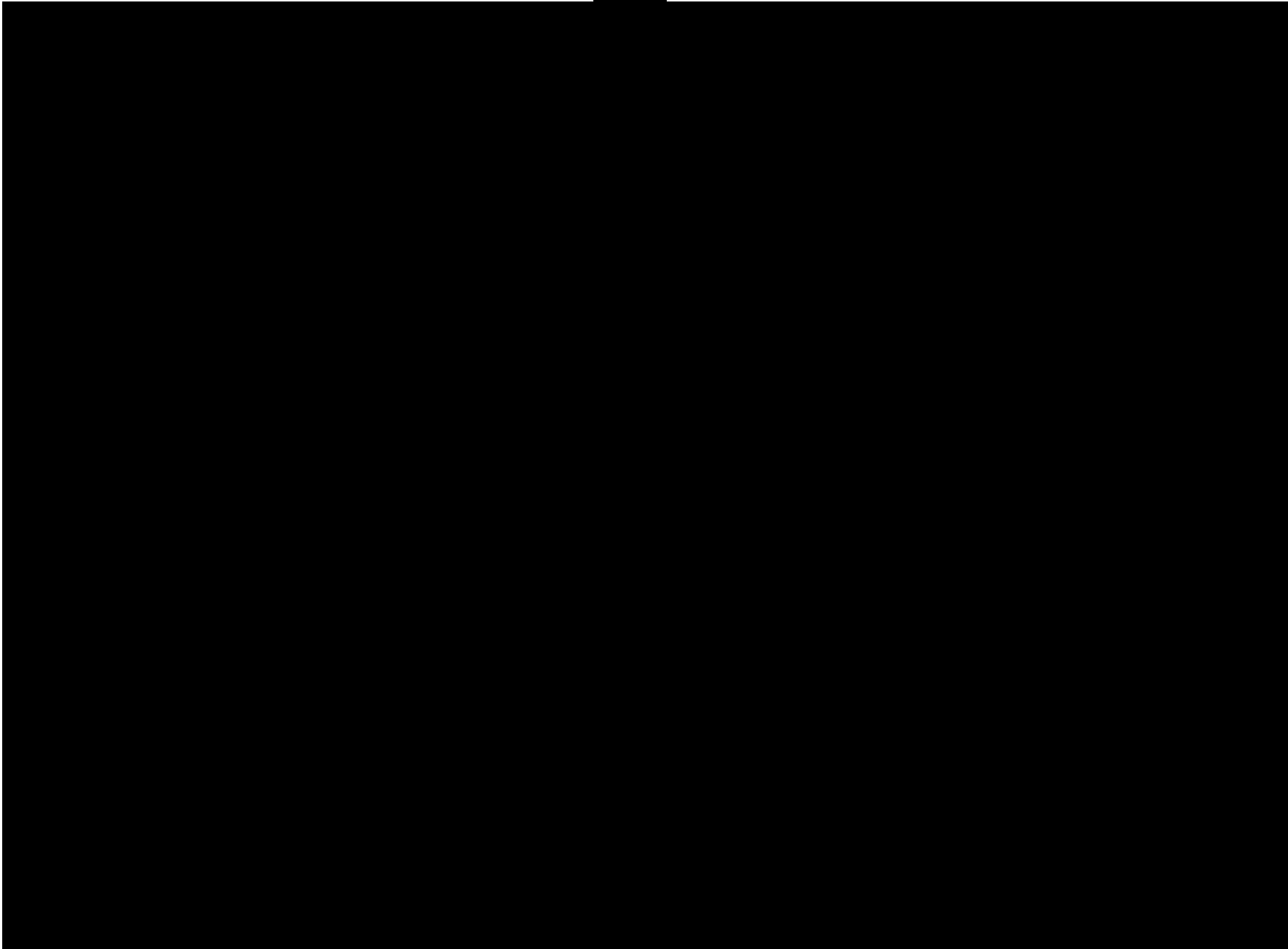
GRAPHICS

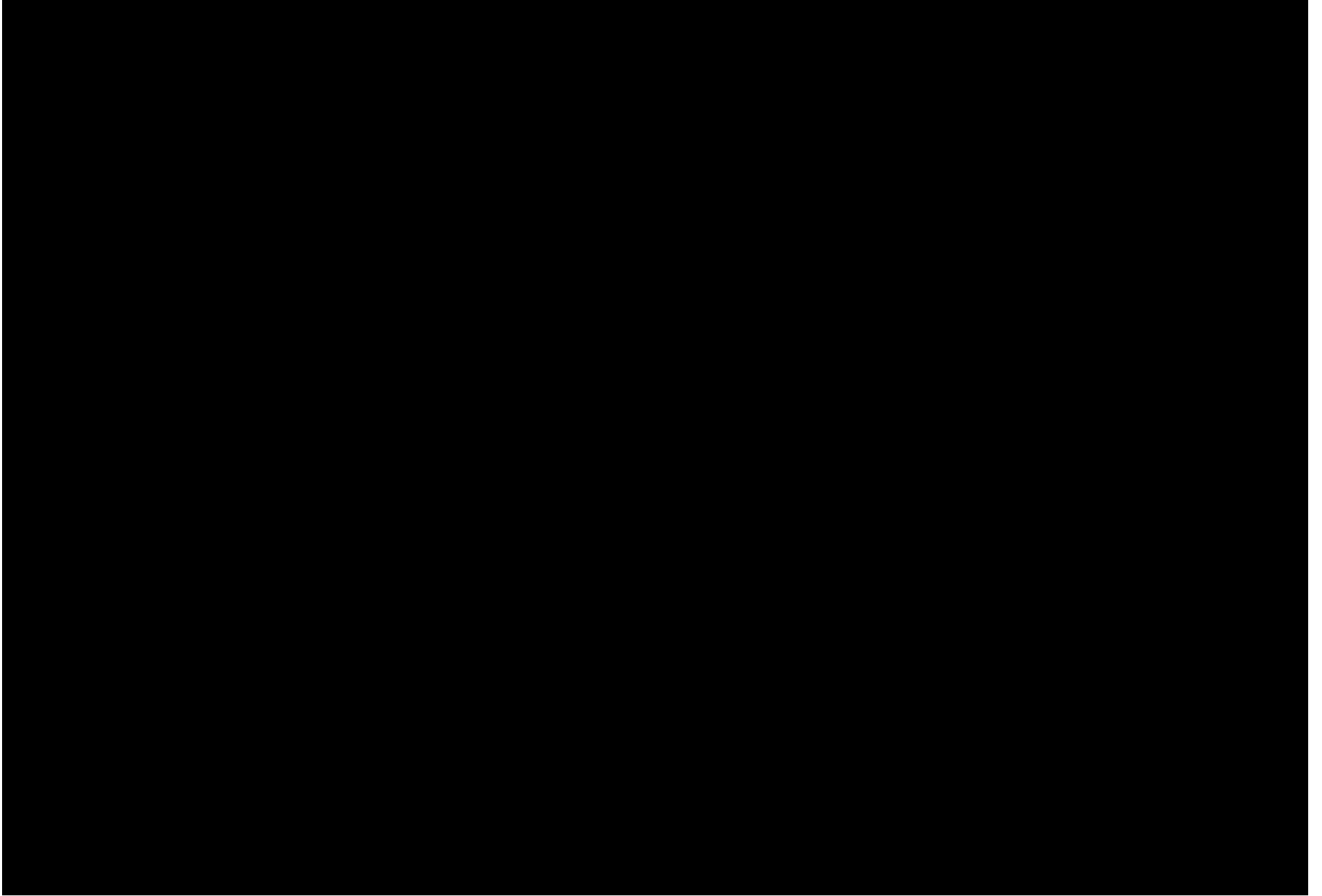


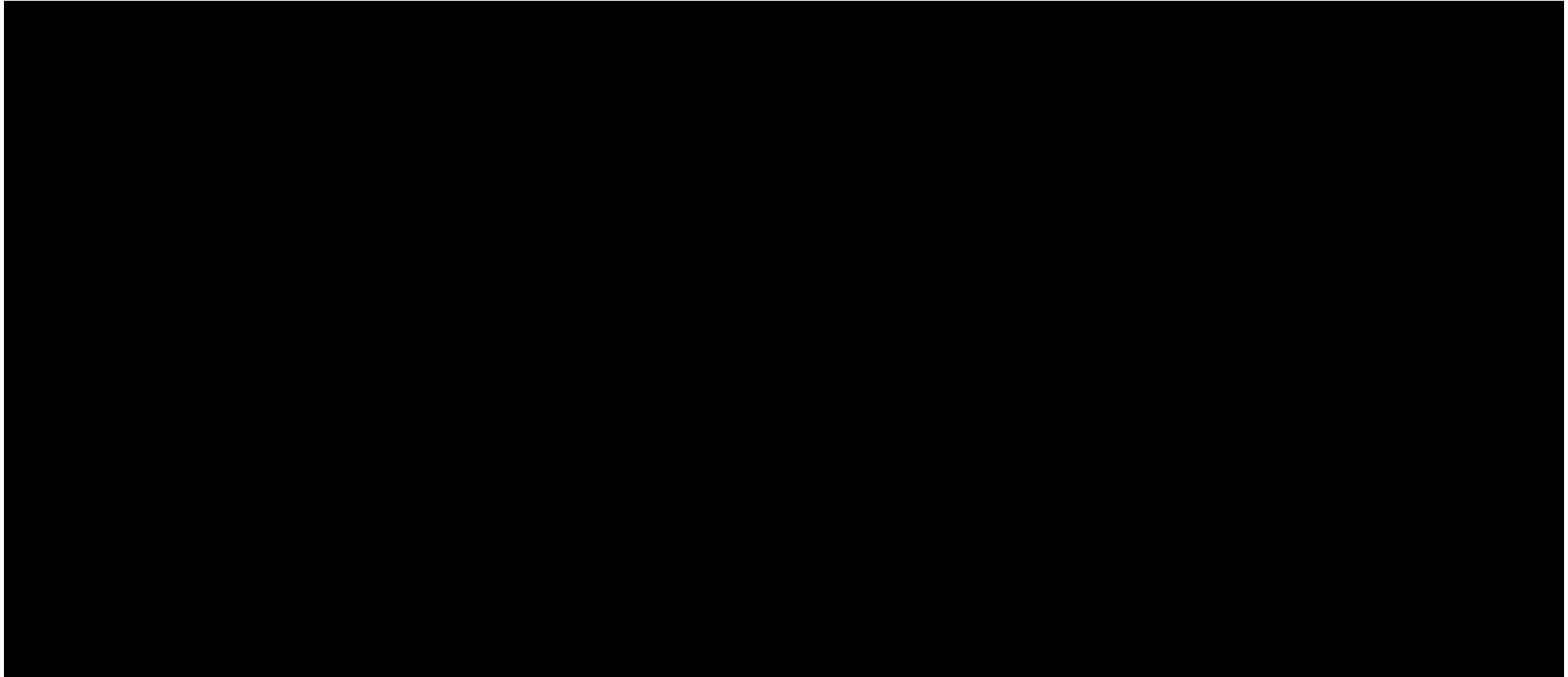


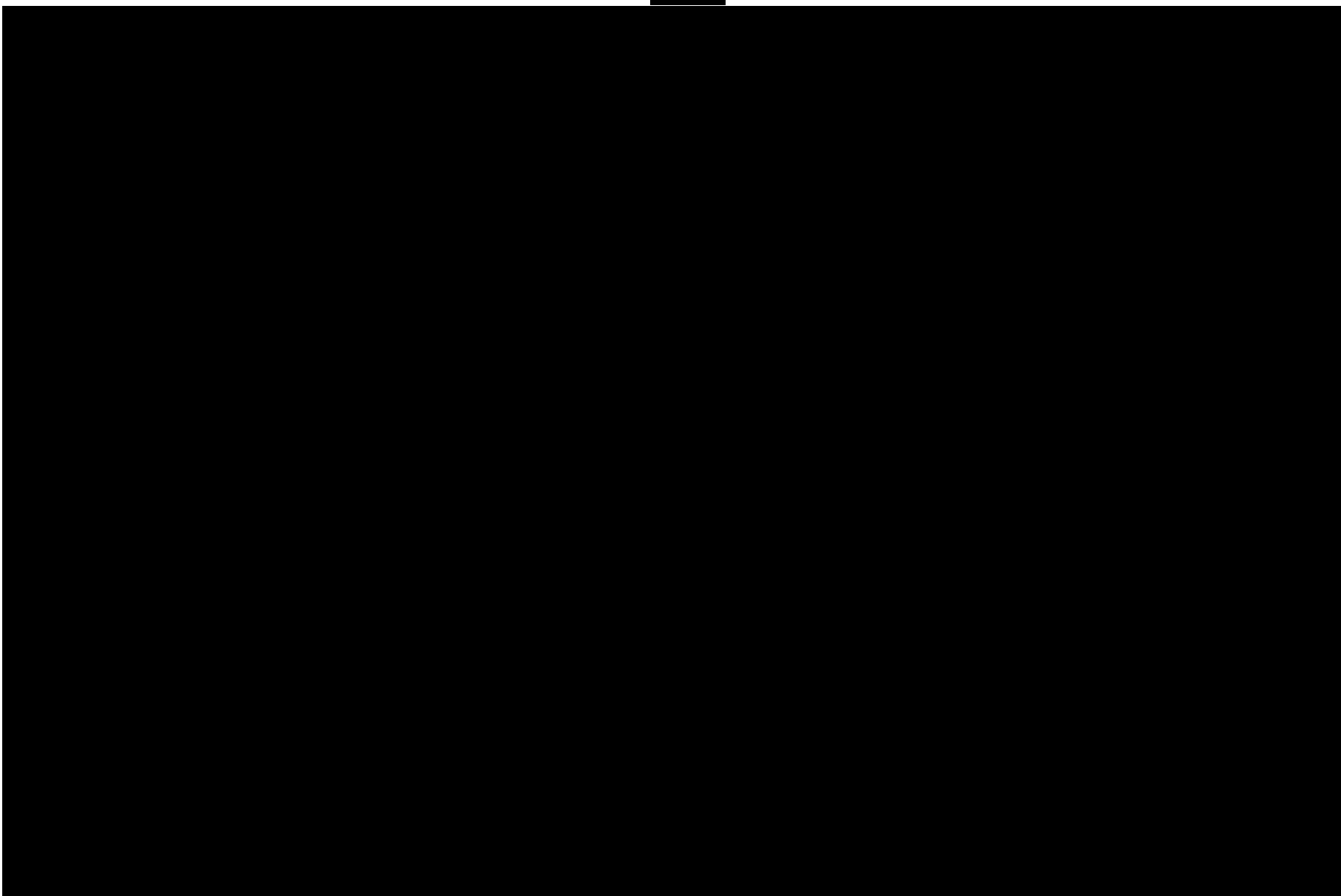












SECTION 3

ESTIMATED COST COMPARISON



SECTION 3 ESTIMATED COST COMPARISON

ESOM BASELINE TO ELEVATED PARK COST COMPARISON

Item	Description	ESOM Baseline	ESOM Elevated Park
01 BASE DESIGN			
01 FLOOD PROTECTION			
	01000 Foundation Paving (Paving)	2,167,879	2,167,879
	01100 Demolition & Clearing	4,741,000	4,741,000
	01200 Flood Gates	21,592,150	21,592,150
	01300 Bridge and Pier Construction	6,777,707	6,777,707
	01400 Utilities	43,737,150	43,737,150
	01500 Retention Wall	14,710,000	14,417,849
	01600 Retention Wall Columns	7,060,705	7,060,705
	01700 Structural Formed	72,627,972	72,627,972
	01800 Earthmoving	47,709,780	47,709,780
	01 FLOOD PROTECTION	227,142,737	227,897,835
02 PARK LANDSCAPING			
	020000 Fencing	4,044,546	4,044,546
	021000 Drainage (canals, Boxed, Flumes or Base Course)	408,414	408,414
	022000 Benches	564,912	564,912
	023000 Path & Run Path	693,400	693,400
	024000 Plant & Soil	47,479	47,479
	025000 Bridge	37,380	37,380
	026000 Lighting	1,648,705	1,648,705
	027000 Utilities	109,414	109,414
	028000 Drainage	2,730,000	2,670,700
	029000 Fences	25,740	25,740
	030000 Improvements	567,850	567,850
	031000 Landscape Planting	6,660,672	6,660,672
	032000 Lighting	4,000,451	4,000,451
	033000 Fencing	367,660	367,660
	034000 Plant & Soil	6,771,439	6,771,439
	035000 Lighting	1,131,771	1,131,771
	036000 Drainage	2,730,436	2,730,436
	037000 (all) Fences or Gatework Fencing	207,100	207,100
	038000 Utilities	1,694,720	1,694,720
	039000 Lighting	7,450,501	7,450,501
	040000 Signage & Art	2,500,734	2,500,734
	041000 Tables	487,000	487,000
	042000 Plant & Soil	217,700	217,700
	043000 Lighting, Treeing	377,400	377,400
	044000 Landscaping	415,174	415,174
	02 PARK LANDSCAPING	58,115,531	58,115,531
03 PARK UTILITIES			
	030000 Gas & Water	66,700	66,700
	031000 Demolition & Clearing	6,174	6,174
	032000 Gas, Water, Storm, Sewer, Drain	1,004,700	1,004,700
	033000 Fencing	14,560,670	14,560,670



[FOR BIDDING] TO CITY/VALLEJO PARK COST COMPARISON

IMM. Irrigation	425,000	425,000
LIGHT Lighting	7,250,000	7,250,000
WATER Water Distribution	26,250	26,250
WATER Water Main	10,800	10,800
WATER Water Main	210,600	210,600
03 PARK UTILITIES	24,462,201	24,462,201
04 PEDESTRIAN BRIDGES		
PR Pedestrian Bridge	41,221,906	41,221,906
04 PEDESTRIAN BRIDGES	41,221,906	41,221,906
05 COMBINED SEWER SYSTEM		
UR U Upgrade Upgrade pipes	2,150,500	2,150,500
MR R Manhole Repairs - By Type	347,212	347,212
MR R Manhole Reconstructed @ Sewer Replacement	2,242,446	2,242,446
REG Regulator Strengthening	6,607,305	6,607,305
MR R Manhole Reconstructed	41,516,061	41,516,061
05 COMBINED SEWER SYSTEM	50,306,716	50,306,716
06 COMFORT STATION		
Comfct Stn Comfort Station	2,799,225	2,799,225
06 COMFORT STATION	2,799,225	2,799,225
07 INTERCEPTOR GATES		
IG Install Interceptor Gates	11,600,000	11,600,000
07 INTERCEPTOR GATES	11,600,000	11,600,000
08 WATER MAIN RELOCATION (24")		
WATER Water Main	2,612,204	2,612,204
08 WATER MAIN RELOCATION (24")	2,612,204	2,612,204
10 AMENDMENTS	2,500,000	0
01 BASE DESIGN SUBTOTAL	421,010,001	293,945,407
11 PARK ADJUSTMENTS		
02 PARK LANDSCAPING		
PL Plant		4,445,700
PL Plant Landscaping		82,100
Obs Bldg Operations Building		3,281,200
Wtr Wtr Restroom Water		2,042,111
Tennis Bldg Tennis Building		5,275,000
Track&Field Track & Field		4,281,000
02 PARK LANDSCAPING		20,052,594
04 PEDESTRIAN BRIDGES		
PR Pedestrian Bridge		7,613,500
04 PEDESTRIAN BRIDGES		7,613,500
05 COMBINED SEWER SYSTEM		
MR R Manhole Reconstructed @ Sewer Replacement		710,964
05 COMBINED SEWER SYSTEM		710,964
06 COMFORT STATION		
Comfct Stn Comfort Station		2,122,500
06 COMFORT STATION		2,122,500
11 PARK ADJUSTMENTS SUBTOTAL	0	20,788,464
12 EXPLANAD ADJUSTMENTS		



ESCR BASELINE TO ELEVATED PARK COST COMPARISON

05 COMBINED SEWER SYSTEM		
SEWER Sewer Rehabilitation		3,100,000
12 ESPLANADE PARTIAL WIDTH SECTION A		
ESPLANADE Surface Granite Block Pavers with Base Course		2,150,000
Demolition Demolition		1,500,000
FILL US Landscape Particle Fill		20,400,000
PAVING Paving		5,500,000
RAILINGS Railings		3,000,000
STRUCTURE Structure		24,900,000
TOPPING Topping		410,000
12 ESPLANADE PARTIAL WIDTH SECTION A		59,500,000
13 ESPLANADE FULL WIDTH SECTION B		
ESPLANADE Surface Granite Block Pavers with Base Course		2,100,000
Demolition Demolition		1,200,000
FILL US Landscape Particle Fill		18,800,000
RAILINGS Railings		0,000,000
STRUCTURE Structure		38,000,000
TOPPING Topping		1,000,000
13 ESPLANADE FULL WIDTH SECTION B		61,200,000
12 ESPLANADE ADJUSTMENTS SUBTOTAL	0	123,450,000
15 SEWER REHABILITATION		
05 COMBINED SEWER SYSTEM		
SEWER Sewer Rehabilitation		12,500,000
05 COMBINED SEWER SYSTEM		
09 REGULATORS		
REG Regulator Reinforcing		30,000,000
09 REGULATORS		
15 SEWER REHABILITATION SUBTOTAL	0	51,500,000
Total with Adjustments	421,800,000	502,192,852



ESCR BASELINE TO ELEVATED PARK CO\$* COMPARISON

Direct Costs with Markups

	ESCR Baseline	ESCR Elevated Park
Labor	213,131,216	329,021,121
Material	107,343,622	119,125,260
Subcontract		
Equipment	15,034,715	18,535,214
Other	24,900,405	25,105,074
	421,010,012	602,192,852
Contingency	126,303,000	150,657,656
	547,313,015	652,850,708
Escalation 3.34 year x 4%	76,350,165	91,072,674
	623,663,180	743,923,382
GC General Conditions	62,366,318	74,362,336
	686,029,498	818,315,720
Overhead & Profit (10%/65%)	102,904,425	122,747,356
	788,933,923	941,063,076
Contractor Bond & Insurance	15,778,676	16,821,262
	804,712,601	959,884,340
Tree Mitigation	21,783,580	33,783,580
DEP Interior Drainage	161,967,141	161,967,141
	968,463,322	1,155,635,061
Total	968,463,322	1,155,635,061

TOTAL CONSTRUCTION

\$1,288,463,322

\$1,155,635,061

SECTION 4

ATTENDEES



SECTION 4 ATTENDEES

OMB TECHNICAL SERVICES UNIT VE MEETING ATTENDANCE SHEET

VE/C: [REDACTED] SVS DATE: Tuesday, April 24th, 2018

LOCATION: 155 Park Place, 8th Floor, Conference Room 8-81/82

STUDY: ESCR VE Meeting

NAME	Company / Agency	Phone/Fax/E-Mail
1. Robert Couka	NYC DOT - Bridges	Phone 212 839-6300 Fax E-Mail rcouka@dot.ny.gov
2. Lesue Waf	NYC DOT - CAPITAL PLAN.	Phone 212 939-4975 Fax E-Mail LWAF@DOT.NYC.GOV
3. [REDACTED]	MURDER RUTLEDGE CONSULTING ENGINEERS	Phone [REDACTED] Fax E-Mail [REDACTED]
4. [REDACTED]	ditto	Phone [REDACTED] Fax E-Mail [REDACTED]
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6. Alyssa Combs	Parks	Phone Fax E-Mail alyssa.combs@parks.nyc.gov
7. Julia Kerson	Manhattan Office DM Ops	Phone Fax E-Mail jkerson@dmcrail.nyc.gov
8. SARAH NELSON	NYC PARKS	Phone Sarah Nelson Fax parks.nyc.gov E-Mail
9. LAWRENCE MAURICE	NYC PARKS	Phone Fax LAWRENCE MAURICE E-Mail LAWRENCE.MAURICE@PARKS.NYC.GOV
10. Anna Wells	NYC Parks	Phone 212-360-3412 Fax E-Mail anna.wells@parks.nyc.gov



**OMB TECHNICAL SERVICES UNIT
VE MEETING ATTENDANCE SHEET**

FETC [REDACTED], SVS **DATE:** Tuesday, April 24th, 2018

LOCATION 255 Park Place, 8th Floor, Conference Room 8-S1/S2

STUDY ESCR VE Meeting

NAME	Company / Agency	Phone/Fax/E-Mail
11. CAROL BUDREGENO	CITY HALL / WDC	Phone 212-341-5200 Fax E-Mail carolbudreno@cityhall.nyc.gov
12. Ben Fungus	City Hall / PDM	Phone 212-341-5203 Fax E-Mail bfun@cityhall.nyc.gov
13. JANINE BAVENTI	ORR	Phone 212-748-0333 Fax E-Mail jba@cityhall.nyc.gov
14. [REDACTED]	SIREWORKS	Phone Fax E-Mail [REDACTED]
15. CARRIE GRASSI	ORR	Phone Fax E-Mail cgrassi@cityhall.nyc.gov
16. KINELY DE LU	ORR	Phone ndcon@cityhall.nyc.gov Fax E-Mail
17. Jim Gamin	DEP	Phone 718-595-5501 Fax E-Mail jgamin@dep.nyc.gov
18. Eleanor Rogers	DDC	Phone Fax E-Mail ROBERSELE@DDC.NYC.GOV
19. Brian Bell: ORR	OMB	Phone 212-748-6346 Fax E-Mail bell@omb.nyc.gov
20. [REDACTED]	CH2M/Jacobs	Phone [REDACTED] Fax E-Mail [REDACTED]



**OMB TECHNICAL SERVICES UNIT
VE MEETING ATTENDANCE SHEET**

VETC [REDACTED] **SVS** **DATE:** Tuesday, April 24th, 2018

LOCATION 255 Park Place, 8th Floor, Conference Room 8-51/S2

STUDY ESCR VE Meeting

NAME		Company / Agency	Phone/Fax/E-Mail		
21.	[REDACTED]	CH2M / Jacobs	Phone	[REDACTED]	
			Fax		
			E-Mail	[REDACTED]	
22.	[REDACTED]	Laz. Edg.	Phone	[REDACTED]	
			Fax		
			E-Mail	[REDACTED]	
23.	[REDACTED]	MVA	Phone	[REDACTED]	
			Fax		
			E-Mail	[REDACTED]	
24.	Scott Johnson	OMB TECHNICAL SERVICES	Phone	202-788-644	
			Fax	4200	
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25.	Jill Woller	OMB Tech Svcs	Phone	412-788-6131	
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			E-Mail	wollerj@omb.eis.gov	
26.	[REDACTED]	MNLA	Phone	[REDACTED]	
			Fax	[REDACTED]	
			E-Mail		
27.	[REDACTED]	AKRF	Phone	[REDACTED]	
			Fax		
			E-Mail	[REDACTED]	
28.	[REDACTED]	TRC - A Business of URS	Phone	[REDACTED]	
			Fax		
			E-Mail	[REDACTED]	
29.	[REDACTED]	AKRF	Phone	[REDACTED]	
			Fax		
			E-Mail	[REDACTED]	
30.	[REDACTED]	AKRF	Phone	[REDACTED]	
			Fax		
			E-Mail	[REDACTED]	



OMB TECHNICAL SERVICES UNIT VE MEETING ATTENDANCE SHEET

VETC [REDACTED] SVS DATE: Tuesday, April 24th, 2018

LOCATION 255 Park Place, 8th Floor, Conference Room 8-S1/S2

STUDY ESCR VE Meeting

NAME	Company /Agency	Phone/Fax/E-Mail
31. [REDACTED]	ARLAP'S	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
32. ERAM QADRI	NYC OMB	Phone 212-788-6241 Fax E-Mail qadrie@omb.nyc.gov
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34. Hately Stein	NYC Law	Phone Fax E-Mail hstet.n@law.nyc.gov
35. Curt's Cincro	OCR	Phone Fax ccurm@cityhall.nyc.gov E-Mail
36. Cherry Mui	OCR	Phone Fax E-Mail cmui@cityhall.nyc.gov
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39. CALVIN JOHNSON	OMB CDBG-DR	Phone 212 788 5029 Fax E-Mail johnson.c@omb.nyc.gov
40. Judy Chang	DOT	Phone 212 839-7798 Fax E-Mail jchang1@dot.nyc.gov



**OMB TECHNICAL SERVICES UNIT
VE MEETING ATTENDANCE SHEET**

VETC [REDACTED] **SVS** **DATE:** Tuesday, April 24th, 2018
LOCATION 255 Park Place, 8th Floor, Conference Room 8-S1/S2
STUDY ESCR VE Meeting

NAME	Company /Agency	Phone/Fax/E-Mail
41. Matthew Winkler	C/DOT	Phone Fax E-Mail mwinkler@dot.ny.gov
42. Jape Li	Mayor's Office DM Ops	Phone Fax E-Mail jl@cityhall.nyc.gov
43. Terry Michaud	OMB Tech Senc	Phone (609) 789-6167 Fax 6200 E-Mail michaudt@omb.nyc.gov
44. [REDACTED]	AKRF	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
45. [REDACTED]	ONE ARCHITECTURE	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
46. [REDACTED]	Strategic Value Solutions, Inc.	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
47. [REDACTED]	Strategic Value Solutions, Inc.	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
48. Travis Gaudre	OMB Tech Services	Phone 212-788-6158 Fax 212-788-6200 E-Mail gaudre@omb.nyc.gov
49. [REDACTED]	MVVA	Phone Fax E-Mail
50.		Phone Fax E-Mail



**OMB TECHNICAL SERVICES UNIT
VE MEETING ATTENDANCE SHEET**

VETC [REDACTED] **SYS** **DATE:** Wednesday, April 25th, 2018

LOCATION 255 Park Place, 8th Floor, Conference Room 8-S1/S2

STUDY ESCR VE Meeting

NAME	Company / Agency	Phone/Fax/E-Mail
1. Travis Godsoe	OMB Tech Services	Phone 212-788-6158 Fax 212-788-6200 E-Mail
2. Lacy SHELBY	NYC DOT	Phone Fax E-Mail LSHELBY@DOT.NY.GOV
3. Jill Weller	OMB Tech Svcs	Phone 212-788-6137 Fax 6200 E-Mail wellerj@omb.nyc.gov
4. [REDACTED]	Strategic Value Solutions, Inc.	Phone Fax E-Mail [REDACTED]
5. [REDACTED]	Strategic Value Solutions, Inc.	Phone Fax E-Mail [REDACTED]
6. Terry Michaud	OMB Technical Services	Phone (212) 788-6167 Fax 6200 E-Mail michaudt@omb.nyc.gov
7. Scott Johnson	OMB Technical Services	Phone 212-788-6114 Fax 6200 E-Mail Johnsons@dep.nyc.gov
8. Matthew Winkler	NYC DOT	Phone Fax E-Mail mwinkler@dot.nyc.gov
9. Haley Stern	NYC Law	Phone Fax hstern@law.nyc.gov E-Mail
10. Jim GARRIN	NYC-DEP	Phone Fax E-Mail jgarrin@dep.nyc.gov



**OMB TECHNICAL SERVICES UNIT
VE MEETING ATTENDANCE SHEET**

VETC [REDACTED] SVS DATE: Wednesday, April 25th, 2018

LOCATION 255 Park Place, 8th Floor, Conference Room 8-S1/S2

STUDY ESCR VE Meeting

NAME	Company /Agency	Phone/Fax/E-Mail
11. <i>Linwood Mason</i>	<i>ESCR</i>	Phone Fax E-Mail
12. [REDACTED]	<i>Blow m CONSTRUCTION CONSULTING</i>	Phone [REDACTED] Fax E-Mail [REDACTED]
13. [REDACTED]	<i>AKRF</i>	Phone Fax E-Mail [REDACTED]
14. [REDACTED]	<i>AKRF</i>	Phone [REDACTED] Fax E-Mail [REDACTED]
15. <i>Enam Haque</i>	<i>DEP</i>	Phone Fax E-Mail <i>ehaque@dep.state.ny.us</i>
16. <i>JULIA KUSON</i>	<i>MAJORS OFFICE</i>	Phone Fax E-Mail <i>jkuson@imphall.nyc.gov</i>
17. [REDACTED]	<i>HDR</i>	Phone Fax E-Mail [REDACTED]
18. <i>Eleanor Rogers</i>	<i>DOC</i>	Phone Fax E-Mail <i>ROBERSEI@DOC.NYC.GOV</i>
19. [REDACTED]	<i>SITEWORKS</i>	Phone Fax E-Mail [REDACTED]
20. <i>Loelie Peoples</i>	<i>NYC Parks</i>	Phone Fax E-Mail <i>Loelie.Peoples@parks.nyc.gov</i>



**OMB TECHNICAL SERVICES UNIT
VE MEETING ATTENDANCE SHEET**

VETC [REDACTED] **SVS** **DATE:** Wednesday, April 25th, 2018

LOCATION 255 Park Place, 8th Floor, Conference Room 8-S1/S2

STUDY ESCR VE Meeting

NAME	Company /Agency	Phone/Fax/E-Mail
21. Alda Chan	NYC Parks	Phone 212 360 3413 Fax E-Mail Alda.Chan@parks.nyc.gov
22. [REDACTED]	Jacobs	Phone [REDACTED] Fax E-Mail [REDACTED]
23. [REDACTED]	ARCADIS	Phone [REDACTED] Fax E-Mail [REDACTED]
24. Judy Chang	DOT	Phone (212) 839-9748 Fax E-Mail jchang1@dot.nyc.gov
25. SARAH NEILSON	NYC PARKS	Phone Fax E-Mail sarah.neilson@parks.nyc.gov
26. [REDACTED]	ONE ARCH.	Phone Fax E-Mail [REDACTED]
27. [REDACTED]	LAZ. ENG.	Phone [REDACTED] Fax E-Mail [REDACTED]
28. [REDACTED]	MUVA	Phone Fax E-Mail
29.		Phone Fax E-Mail
30.		Phone Fax E-Mail



OMB TECHNICAL SERVICES UNIT
VE MEETING ATTENDANCE SHEET

VEPC [REDACTED] SVS, Inc.

LOCATION OMB, 255 Greenwich Street, 7th Floor, Conference Room E-10

STUDY ESCR Proposal Review DATE: Thursday, April 26th, 2018

NAME	Company /Agency	
1. [REDACTED]	Mueser Rutledge	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
2. [REDACTED]	MUESER RUTLEDGE	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
3. Owen Wells	Park	Phone [REDACTED] Fax [REDACTED] E-Mail owen.wells@park-nyc.gov
4. Lucy Shelby	DOT	Phone [REDACTED] Fax [REDACTED] E-Mail lshelby@DOT.NYC.GOV
5. THU-LOAN DINH	NYC DDC	Phone [REDACTED] Fax [REDACTED] E-Mail DINHTH@DDC.NYC.gov
6. [REDACTED]	ARCADIS	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
7. [REDACTED]	IFE Associates	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
8. Scott Johnson	OMB TECH SERVICES	Phone 212-788-6114 Fax 6200 E-Mail Johnson.S@omb.nyc.gov
9. Charry Mui	OPR	Phone [REDACTED] Fax [REDACTED] E-Mail cmui@cityhall.nyc.gov
10. Carrie Grassi	OPR	Phone [REDACTED] Fax [REDACTED] E-Mail cgrassi@cityhall.nyc.gov



**OMB TECHNICAL SERVICES UNIT
VE MEETING ATTENDANCE SHEET**

VETC [REDACTED] SVS, Inc.

LOCATION OMB, 255 Greenwich Street, 7th Floor, Conference Room E-10

STUDY ESCR Proposal Review DATE: Thursday, April 26th, 2018

NAME	Company /Agency	Phone/Fax/E-Mail
11. [REDACTED]	AIKCF	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
12. [REDACTED]	MNLA	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
13. Sarah Neilson	NYC PARKS	Phone [REDACTED] Fax sarah.neilson@parks.nyc.gov E-Mail [REDACTED]
14. Mirella De Co	ORR	Phone [REDACTED] Fax [REDACTED] E-Mail mirella@cityhall.nyc.gov
15. Eleanor Rogers	ODC	Phone [REDACTED] Fax [REDACTED] E-Mail ROGERSEL@ODC.NYC.GOV
16. Judy Chang	DOT	Phone 212-839-9798 Fax [REDACTED] E-Mail jchang1@dot.ny.gov
17. Matthew Whittle	DOT	Phone [REDACTED] Fax [REDACTED] E-Mail mwhittle@dot.ny.gov
18. Thomas Adams	PARKS	Phone 718-760-6468 Fax [REDACTED] E-Mail Thomas.adams@parks.nyc.gov
19. Jill Walker	OMB Tech Svcs	Phone 212-780-6137 Fax 6700 E-Mail walkerj@omb.nyc.gov
20. [REDACTED]	HOC	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]



**OMB TECHNICAL SERVICES UNIT
VE MEETING ATTENDANCE SHEET**

VETC [REDACTED] **SYS, Inc.**

LOCATION OMB, 255 Greenwich Street, 7th Floor, Conference Room E-10

STUDY ESCR Proposal Review **DATE:** Thursday, April 26th, 2018

	NAME	Company /Agency	Phone/Fax/E-Mail
21.	[REDACTED]	SYS	Phone Fax E-Mail
22.	[REDACTED]	SYS	Phone Fax E-Mail
23.	[REDACTED]	GLL	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
24.	[REDACTED]	Jacobs	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
25.	[REDACTED]	AKRF	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
26.	[REDACTED]	AKRF	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
27.	[REDACTED]	MVNA	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
28.	JULIA KERSON	Mayor's Office	Phone [REDACTED] Fax [REDACTED] E-Mail jkerson@cityhall.nyc.gov
29.	Alyssa Cobb KPMG	NYC Parks	Phone alyssa.cobb@parks.nyc.gov Fax [REDACTED] E-Mail [REDACTED]
30.	Letrice Wolf	NYC DOT	Phone 212 439-4915 Fax [REDACTED] E-Mail lwolf@dot.nyc.gov



**OMB TECHNICAL SERVICES UNIT
VE MEETING ATTENDANCE SHEET**

VETC [REDACTED] SVS, Inc.

LOCATION OMB, 255 Greenwich Street, 7th Floor, Conference Room E-10

STUDY ESCR Proposal Review DATE: Thursday, April 26th, 2018

NAME	Company / Agency	Phone/Fax/E-Mail
31. [REDACTED]	AKRF	Phone [REDACTED] Fax [REDACTED] E-Mail [REDACTED]
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33. Tom Pellicano	OMB	Phone 212-788-3700 Fax E-Mail pellicano.t@omb.nyc.gov
34. [Signature]	GRK	Phone - Fax E-Mail [REDACTED]
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**OMB TECHNICAL SERVICES UNIT
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VEPC [REDACTED] SVS, Inc.

LOCATION OMB, 255 Greenwich Street, 7th Floor, Conference Room E-10

STUDY ESCR Proposal Review DATE: Thursday, April 26th, 2018

NAME	Company / Agency	Phone/Fax/E-Mail
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44. [REDACTED]	US Team / ITR	Phone Fax E-Mail [REDACTED]
45. [REDACTED]	[REDACTED]	Phone [REDACTED] Fax E-Mail
46. Julia Keelson	Mayor's Office	Phone Fax E-Mail jkeelson@cityhall.nyc.gov
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48. Owen Webb	NYC Parks	Phone Fax E-Mail owen.webb@parks.nyc.gov
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