

HALEY & ALDRICH, INC. 465 Medford St. Suite 2200 Boston, MA 02129 617.886.7400

20 January 2017 File No. 129630-002

Walker Parking Consultants 20 Park Plaza Suite 1202 Boston, MA 02116

Attention:

Mr. Christopher E. Brennan, PE

Director of Operations/Principal

Subject:

Geotechnical Data Report

MBTA Commuter Lot Waterfield Road

Winchester, Massachusetts

Ladies and Gentlemen:

This report presents the results from a geotechnical subsurface exploration program conducted by Haley & Aldrich in connection with the MBTA Commuter Parking Lot off Waterfield Road in Winchester, Massachusetts. These services were performed in general accordance with our proposal dated 9 January 2017.

The purpose of the subsurface exploration program was to obtain preliminary geotechnical information relative to subsurface soil/bedrock conditions at the site.

INTRODUCTION

The existing parking lot site is proposed to be developed with a mixed use building, about 2 to 4 stories in height and no below grade space. The limits and configuration of the development are not known. The development may consist of retail at ground floor with a mix of office and residential space on the upper floors. A site locus is included as Figure 1.

The project structural engineer, Walker Parking Consultants provided the following information on the proposed structure. The interior vertical column loads are planned to be about 500 kip per column and exterior columns would be about 350 kips per column. In addition to the column loads, vertical walls loads of about 15 kips per linear foot of wall are planned.

ELEVATION DATUM AND HORIZONTAL CONTROL

Elevations in this report are given in feet and refer to the North American vertical Datum of 1988 (NAVD88).

The plan location of the test boring completed by Haley & Aldrich was taped to existing features shown on the site plan. The accuracy of boring location should be considered to be consistent with the methods used.

SUBSURFACE INFORMATION

One (1) test boring was completed by Haley & Aldrich at the location shown on the attached Figure 2. The test boring was drilled from ground surface by New England Boring Contractors on 12 January 2017. The test boring was monitored in the field by a Haley & Aldrich geologist. Upon completion of the test boring, a groundwater monitoring well was installed in the completed borehole. A log of the test boring is included in Appendix A. A Groundwater Observation Well Installation Report is included as Appendix B.

Previous test borings were reportedly completed at the site by Jacobs and logs for the borings are included as Appendix C.

SUBSURFACE CONDITIONS

Results of test boring HA17-1 indicate a 3 ft thick layer of fill below ground surface. The fill soils are underlain by Glaciolacustrine deposits consisting of gray to brown silty SAND to SILT with trace sand. Glaciofluvial deposits consisting of very dense well graded SAND with gravel were encountered from a depth of 39 ft to 44 ft below ground surface.

Well graded gravel that may be weathered bedrock was encountered at a depth of 44 ft below ground surface. The top of this unit was sampled with a split spoon sampler at a depth of 50.3 ft.

The water level was recorded at the site in Observation Well HA17-1 on 18 January 2017, 6 days after well installation at a depth of 10.8 ft below ground surface, at El. 11.2.

PRELIMINARY GEOTECHNICAL CONSIDERATIONS

Based on the available test boring information, soil bearing footings are likely feasible provided they bear directly on the undisturbed, naturally deposited soils. We recommend foundations be supported by on naturally-deposited, undisturbed, inorganic glacial soils.

For the purpose of seismic design in accordance with the 8th edition the Massachusetts State Building Code, the site is classified as Site Class D. The site soils are not considered liquefaction susceptible in accordance with criteria in the Building Code.



LIMITATIONS -

This report has been prepared for specific application to the MBTA Commuter Parking Lot in Winchester, Massachusetts, as understood by Haley & Aldrich at this time. After the design or location of the facilities is finalized, the conclusions and recommendations contained in this report should be reviewed and modified or verified in writing by Haley & Aldrich. Our recommendations are based in part upon data obtained from the referenced subsurface explorations. The nature and extent of variations between explorations will not become evident until construction. If significant variations then appear, it may be necessary to re-evaluate the recommendations of this report.

CLOSURE

We appreciate the opportunity to undertake this work and look forward to our association with you on the next phases of this project. Please contact the undersigned if you wish to discuss the above information or have additional questions.

Sincerely yours,

HALEY & ALDRICH, INC.

Denis J. Bell, P.E.

Senior Engineer

Bryan P. Sweeney, P.E. Senior Vice President

Enclosures:

Figure 1

Project Locus

Figure 2

Subsurface Exploration Plan

Appendix A

Test Boring Logs

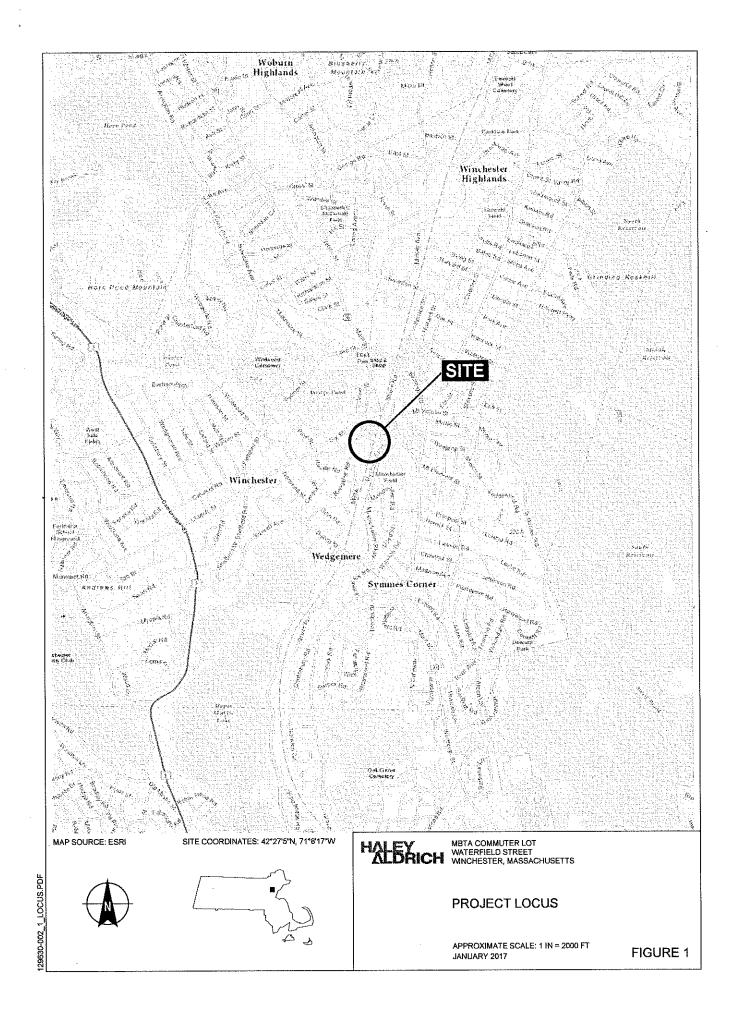
Appendix B

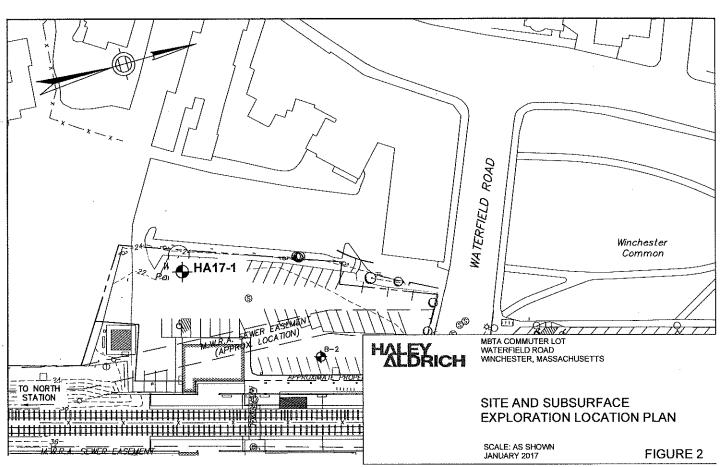
Groundwater Observation Well Installation Report

Appendix C

Previous Test Borings

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G:\129630\002\DRAWINGS\FIGURE-2.pdf djb

APPENDIX A

Test Boring Logs

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	5	S1A 12	2.0	OL/ OH-		2.0	S1A: Stiff brown ORGANIC SOIL (OL/OH) intermixed with tan sandy SILT (ML)						-		30	70		-†			
		14	3.0			19.5	omicy off	REWORKED TOPS	OIL / LOESS				١								
						18.5 3.5															
_																					
5 -	8 7	S2 20	5.0	SM - SP				dense light gray silty SAND (SAND (SAND (SP), mps < 1 mm, strait							85	15					
	7 8	20	7.0	Sr			graded Sa	Arto (Sr), hips < 1 him, sua	iined, no odor, dry												
	<u> </u>					1															
10-	6 4 4 5	S3 20	10.0 12.0				Loose bro	own silty SAND (SM), mps <	, wet			4444		85	15		ANALY CONTRACTOR				
					遺	1		GI ACIOI ACIISTRII	NE DEPOSITS.												
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15	3	S4 19	15.0	1]	Similar to above, except gray								70	30					
	3 2	19	17.0]															
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20	5 5 6 6	S5 18	20.0 22.0	SM			Medium dense brown silty SAND (SM), mps < 1 mm, no structure, no odor, wet					80	20				
			۰۰ ر				-GLACIOLACUSTRINE DEPOSITS-									-	
- 25 -	. 4 S6 25.0 SM 5 18 27.0				Similar to above			-		80	20						
-						-6.5 28.5	5.5									_	
- 30 - -	15 14 12 13	S7 22	30.0 32.0	ML		20.0	Medium dense brown SILT (ML), mps < 1 mm, laminated, no odor, wet, trace fine sand					10	90				
		14 S8 35.0 ML/		-GLACIOLACUSTRINE DEPOSITS-													
- 35 -	14 15 20 28					The state of the s	Dense brown SILT (ML) interbedded with seams of silty SAND (SM), mps 1 in., laminated, no odor, wet, trace gravel					25	70				
- 40 -					9 9 9	-17.0 39.0	The state of the s	10	20	1	26	15				_	
-	17 19 34 21	S9 17	40.0 42.0	SW	9 d 6		Very dense brown well graded SAND with gravel (SW) -GLACIOFLUVIAL DEPOSITS- Note: Lost drill water at approximately 44 ft.	10	20	20	33	13					
-		Average			6 0 0 0 0 0	-22.0 44.0										<u></u>	
- 45 - -	33 21 19 29	S10 18	45.0 47.0	GW	0 0 0 0 0 0 0 0 0		Dense orange brown to purple well graded GRAVEL with sand (GW), mps 1.5 in., no structure, no odor, wet, sample consists of highly fractured weathered igneous rock	35	25	30	5	5		HANDING	The state of the s		
-		Taraki kataki katak			0 0 0 0 0 0	W	-PROBABLE BEDROCK-		· ·								
	NOTE	: Soil is	dentific	ation h	ased o	n visual-	manual methods of the USCS as practiced by Haley & Aldrich, Inc.	E	lor	ing	Nc),	HA	117	-1 (o	1

HALEKICH							śm	TEST BORING REPORT	Boring No. HA17-1 (OW) File No. 129630-002 Sheet No. 3 of 3									
ł		s,	6 ∵		1 _	Ĕ	£	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION		vel	_	Sano		Ĭ	Fi	Field Test		
Depth (ft) Sampler Blov		Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	USCS Symbol	Well Diagram	Stratum Change Elev/Depth (ft)	(Density/consistency, color, GROUP NAME, max. particle size [†] , structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	% Coarse	% Fine	% Coarse	% Медіит	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
	EO	100/4%		50.0 50.3	GM	8 6 6	-28.3 50.3	Very dense light gray to purple gray silty GRAVEL with sand (GM), mps 1.5 in., no structure, no odor, wet, sample consists of highly fractured weathered igneous rock BOTTOM OF EXPLORATION 50.3 FT Note: Groundwater Observation Well installed at 18 ft upon completion.										
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TEST BORING-09 REV						a						No		H	117-	1 /	O.W.	<u></u>

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No.

HA17-1 (OW)

APPENDIX B

Groundwater Observation Well Installation Report



HALTRICH				LLM	TION RI	W-IID:
Client WALKER	TELD R	OAD ING C	LOT , WINCHESTE CONSULTANTS ORING CONTR	S	RS	Well Diagram Riser Pipe Screen File No. 129630-00 Date Installed 12 3 H&A Rep. D. Wan Location See Plan Cuttings
Driller M. D'A	Ambrosi	0				Grout Ground El. 22.0
Initial Water Level (depth b	gs)	10.6 f	t		Bentonite Seal Datum NAVD 88
SOIL/RO	CK	,,,,,	WELL		N.	•
CONDITIONS	DEPTH (ft.)	GRAPHIC	DETAILS	DEPTH (ft.)	ELEVATION (ft.)	WELL CONSTRUCTION DETA
						Type of protective cover Compress
			11 - 11	0.0	22.0	Depth of Roadway Box below ground surface
-0 ASPHALT	/ 0.2 - — · 2.0			_0.8_ 	21.3 19.0	Depth of top of riser below ground surface
TOPSOIL/ LOES:	<u>S</u> , 3,5			6.0	16.0	Type of protective casing Roadwa
-				8.0	14.0	Length
· · ·				0.0	17.0	Inside diameter
-10 - -						Depth of bottom of Roadway Box
• •						Type of riser pipe Schedule 4
-15 - GLACIOLACUSTR - DEPOSITS	INE					Inside diameter of riser pipe
-20				18.0 19.0	3.0	Depth of bottom of riser pipe
				21.0	1.0	Type of Seals Top of Seal (ft) Thickr
Ĺ						Concrete 0.0
-25 -						Bentonite 3.0
- -						Bentonite 19.0
	28.5					Diameter of borehole
ţ				33.0	-11.0	Depth to top of well screen
GLACIOLACUSTR DEPOSITS	INE		6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Type of screen Machine slotte
			اه ماه ها هاه اه			Screen gauge or size of openings
	39.0					Diameter of screen
-40 GLACIOFLUVIA DEPOSITS -45	ıI.		5 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6 . 6 .			Type of Backfill around Screen
GLACIOFLUVIA DEPOSITS			0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Depth to bottom of well screen
-45	—— 44.C					
BEDROCK						Bottom of silt trap —
†			9 9 9 9 9 9 9	}		Pepth of bottom of borehole

APPENDIX C

Previous Test Borings

LOG OF TEST BORING

		2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		PF	ROJECT				enter Commuter Ra								
286			-	-	CATION			ter, M			BORING		B-	2			
		COL	5 3	01	WNER		ΤA				NO.						
					B NUMBER	E2	X6720	00				SI	HEET	1 OF 2			
INSPE	ECTOR	G. Shay		CC	NTRACTO	R NE	B Cor	ntracto	rs	DRILLER	G. Twombly Jr.	ELEVATIO	Ņ	20.8			
		D OF DRILL	ING		GRO	WDNUC	ATER	REA	DINGS	DRILL RIG	Diedrich D-90	DATUM		NAVD			
0.0	V	acuum Exca	ation/		DATE/TI	ME	L)EPTH		SPT HAMMER	140 lb Safety	GRID	N	29896			
7.0	Was	h Boring w/ 4	" Casin	g 0:	3-02-2016 /	7:00 AM		9,5	Before Drilli	ing (In Casing ~ 16	hours stabilized)	COORD	E	75386			
51.0		Terminate	d									DATE STA	ART	3/1/16	<u> </u>		
												DATE EN)	3/2/16	,		
ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N- VALUE	SAMPLE NO,	DEPTH INTERVAL (ft)	PEN/REC (in)/(in)	P1D (ppm)	LAYER		SOIL AND RO	OCK DESCRIPTION				NO.		
_					(-)				(0"-2"): ASPHA	LT		,			1		
-20 - -					-			FILL	(2" - 5'): Dry, br some(-) Cobbles		GRAVEL, some(+)	fine to coars	se Sai	nd,			
15	5	٠				THE REAL PROPERTY AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDR		5	(5'- 7'): Dry, ligh	nt brown, fine SANI	O, trace Silt.						
		6 6	11	S1	7-9	24/12			S1: Wet, mediu	ım dense, light brov	vn, fine SAND, trace	Silt.					
- - -10	10	5 4 8 8 9 7	17	S2	9 - 11	24/0			S2: No recover	y .							
· · ·5	15	5 4 6 7	10	S3	14 - 16	24/12			S3: Wet, mediu	um dense, light brov	vn, fine SAND, little	Silt,					
0		3 6 5	9	S4	19 - 21	24/9	***************************************	FINE SAND	S4: Wet, loose,	, light brown, fine S	AND, trace Silt.						
-5	- 25	67 8	15	S5	24 - 26	24/10			S5: Wet, mediu	um dense, light bro	wn, fine SAND, trace	e Silt.					
-10	-30	8 10 9 11	19	S6	29 - 31	24/10			S6: Wet, mediu	um dense, light bro	wn, fine SAND, trace	e Silt.					
		7 16	35	S7	34 - 36	24/0		33.5	S7: No recover	ry (6" of fine to coar	se Gravel wash in s	poon).					

1. Vacuum excavation was conducted on 2/29/2016 to a depth of 7 feet. Sample descriptions for the vacuum excavated layers are based on visual inspections.

2. Rig chatter and slightly harder drilling at 33.5 feet.

Borings are taken for Information purposes only and show conditions at boring points only, but do not necessarily show the nature of the material to be encountered during construction.

NOTES

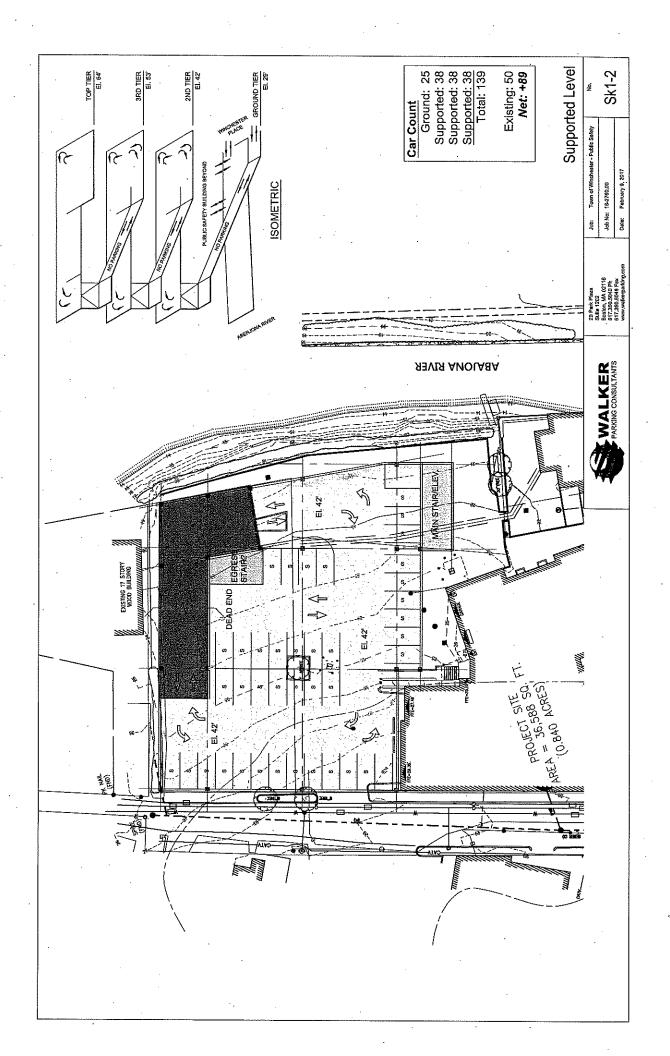
LOG OF TEST BORING Winchester Center Commuter Rail Station

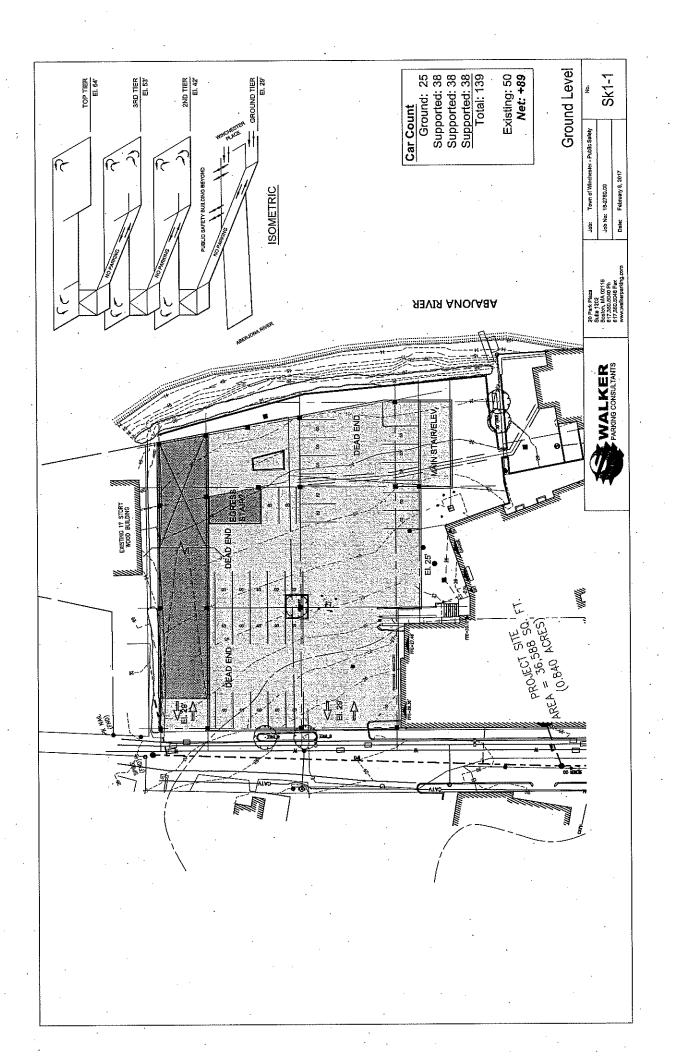
PROJECT

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J,		COE		O/	VNER		MBTA			NO.		
				JO	B NUMBER		E2X672				SHEET 2 OF 2	
ELEV. (ft)	DEPTH (ft)	SAMPLE DATA	N- VALUE	SAMPLE NO.	DEPTH INTERVAL (ft)	PEN/R (in)/(ir	EC PID n) (ppm)	LAYER	SOIL AND ROCK	DESCRIPTION		NOTES
15		18 17 10	***************************************									
	_	10					***************************************		•			
_	_											
	-40	27 33 12 18	45	S8	39 - 41	24/7	7		S8: Wet, dense, brown, fine to coarse Silt.	SAND and fine to	coarse Gravel, little	
20	- 10	12 18						SAND AND GRAVEL				
	_							R G				
	_							ANG				
	-	- 04			44 40	244		A N	00. 11			_
	45	21 14	33	S9	44 - 46	24/0	U	S	S9: No recovery.			3
25	-	14 19 18							•			
	_											
_												
_	-	145	34	S10	49 - 51	24/1	<u>.</u>		S10: Wet, dense, brown, fine to coarse	SAND some fin	e to coarse Gravel	4
	50	14	0.7		70 01				trace Silt.	, a , a , a , a , a , a , a , a , a , a	0 10 000.00 0/0/0.,	
30	F	15 14 20 30						51	Bottom of Borehole at 51 feet.			
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Borings are taken for Information purposes only and show conditions at boring points only, but do not necessarily show the nature of the material to be encountered during construction.

^{3.} Redrove 3" spoon to collect sample. Recovered 1" of fine gravel, probable wash. 4. Backfilled hole with soil cuttlings. Asphalt cold patch at surface.





Public Safety Lot Concept 1: Top Level



Concept 1 Public Safety Site

Car Counts

Concept 1:
Ground Level: 25 Spaces
Second Level: 38 Spaces
Third Level: 38 Spaces
Top Level: 38 Spaces
Garage Total* : 139 Spaces

Efficiency (Garage Only) 521 stroar

* The count has been reduced by 5% from what is shown on the plan to accommodate undefined drasign elaments.

Net Gain

Concept 1: 139 Spaces
Existing Surface Lot: (50) Spaces
Total: 89 Spaces

Construction Cost Information

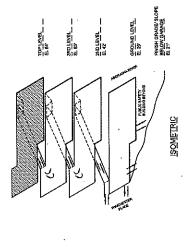
\$7,850,000 \$56,500 \$88,000 Total: \$7 Per Space: Per Net Added Space:

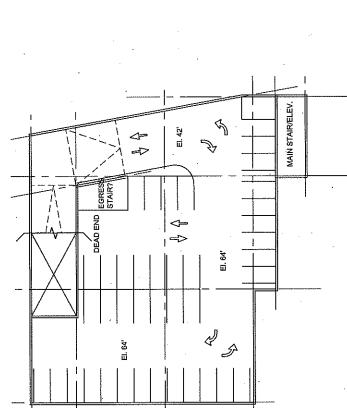
Notes:

Cost are extrapolated values for comparison purposes not formal estimates
 Based on \$108/s.f

Date: 3/06/2017 Project N. 16-2760.00

No Month







Concept 1 Public Safety Site

Car Counts

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Ground Level: 25 Spaces Second Level: 38 Spaces
Third Level: 38 Spaces
Top Level: 38 Spaces
Garage Total* :139 Spaces

Efficiency (Garage Only) 521 sffcar

The count has been reduced by 5% from what is shown on the plan to accommodate undefined design elements.

Net Gain

Concept 1: 139 Spaces Existing Surface Lot: (50) Spaces Total: 89 Spaces

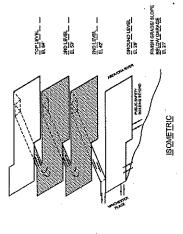
Construction Cost Information

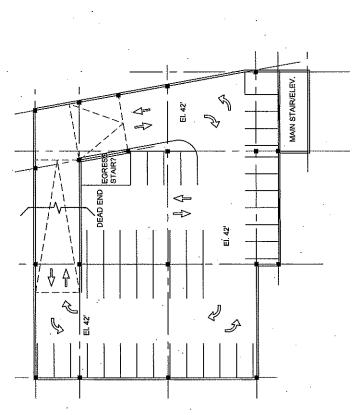
\$7,850,000 \$56,500 \$88,000 Total: \$7 Per Space: Per Net Added Space:

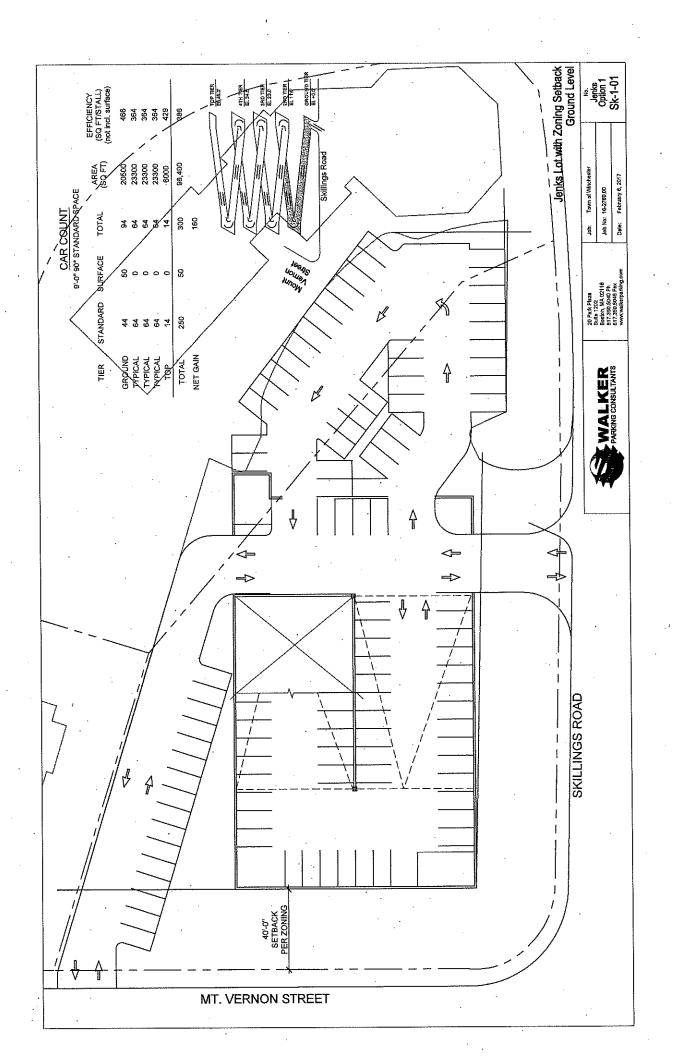
Cost are extrapolated values for comparison purposes not formal estimates
 Based on \$108/s.f

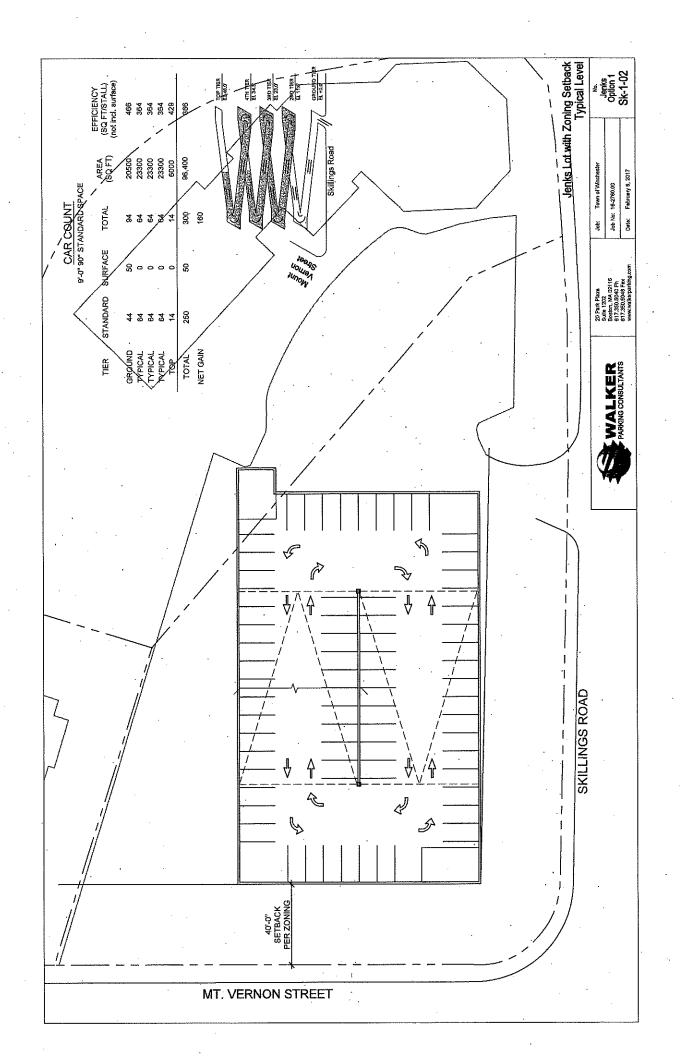
Date: 3/06/2017 Project N. 16-2760.00

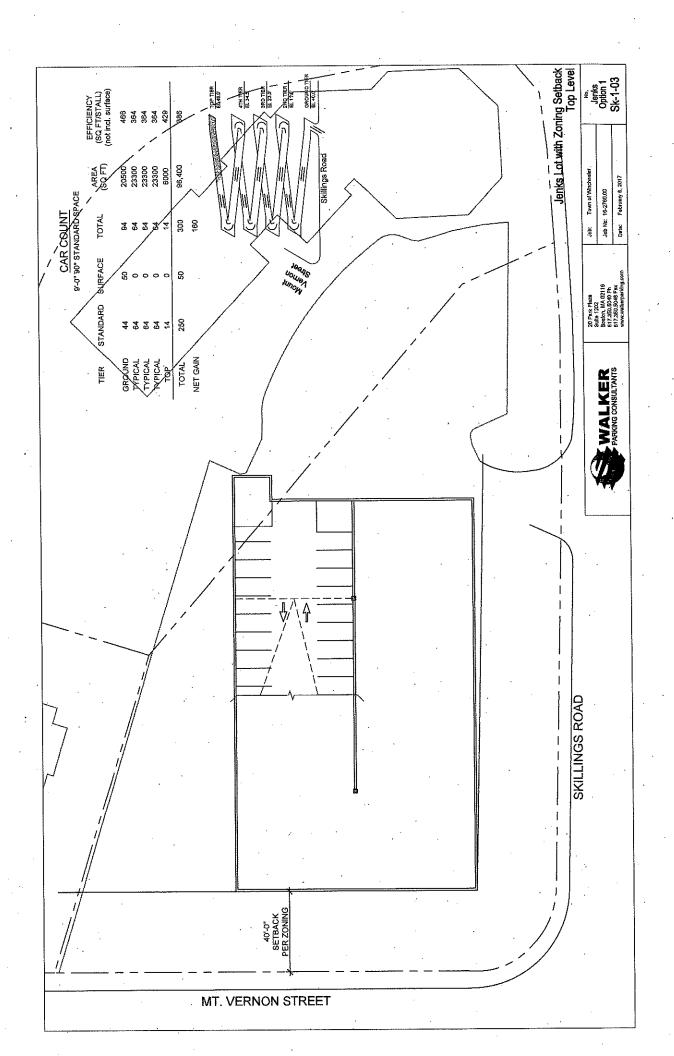
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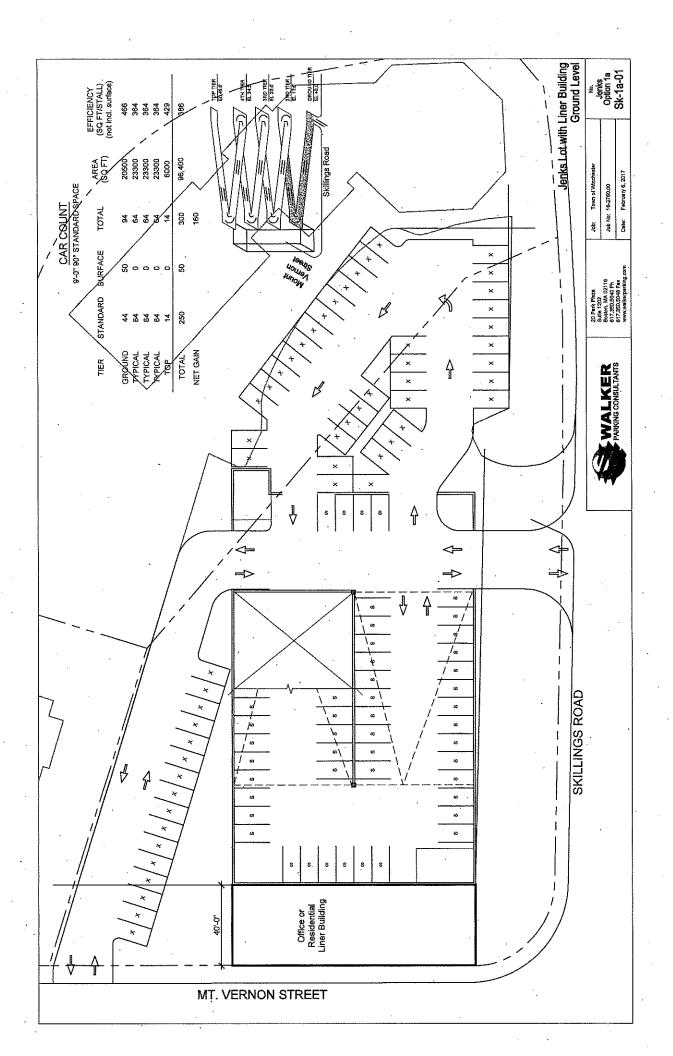


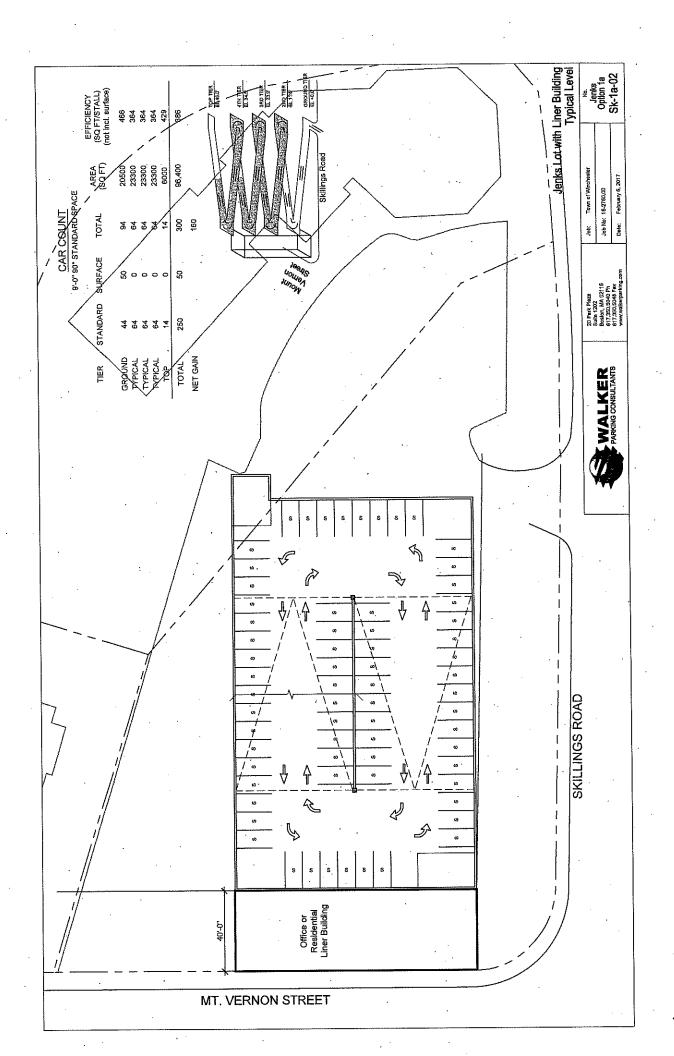


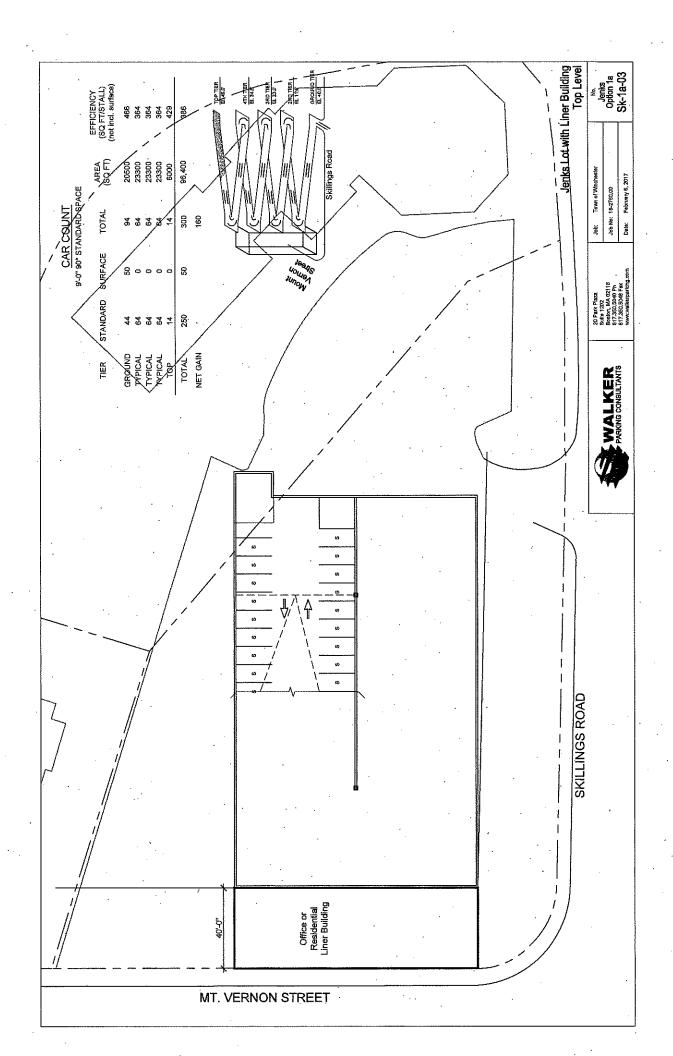


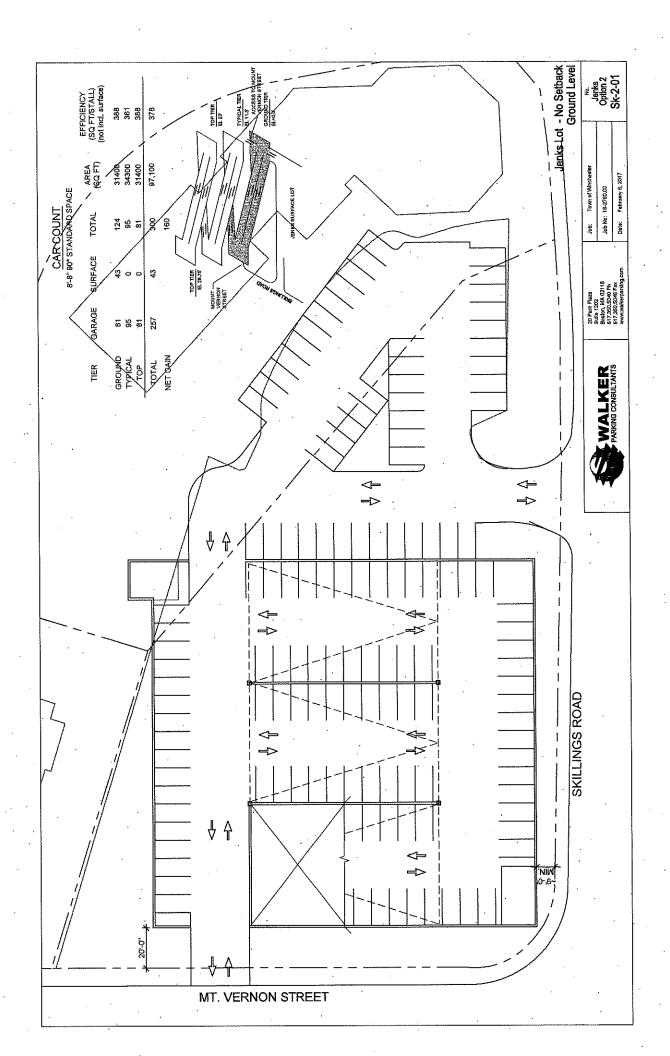


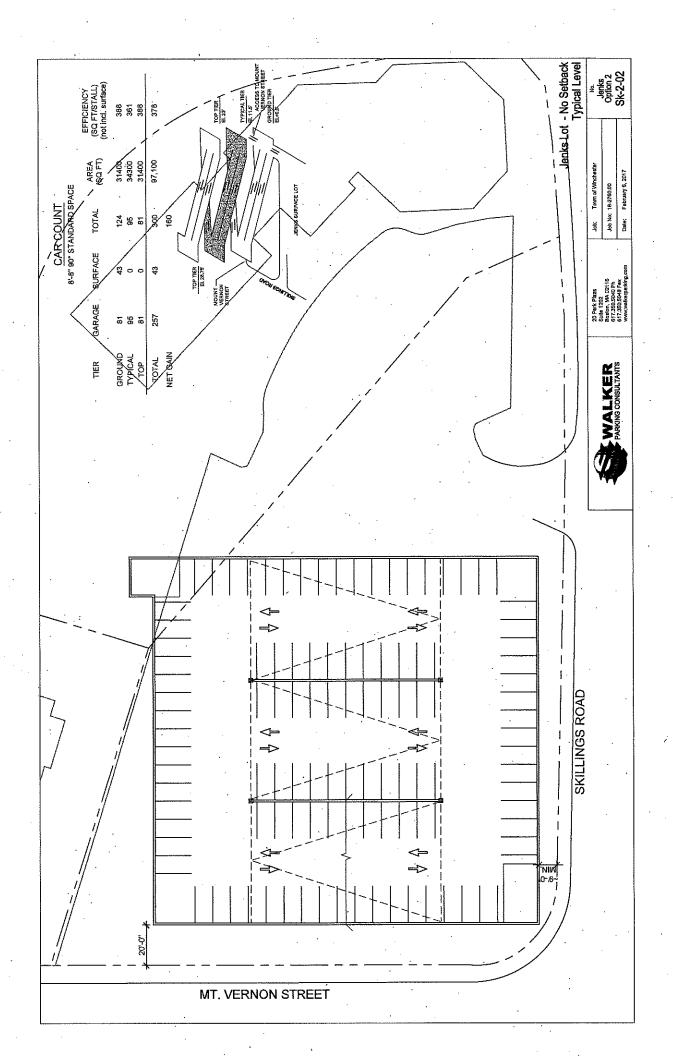


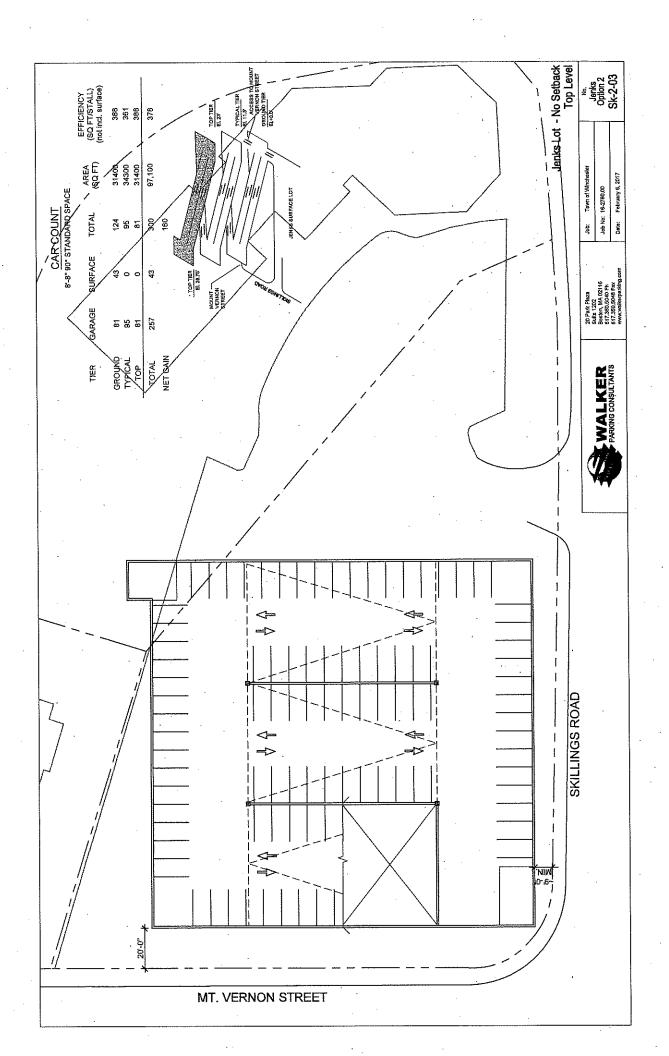
















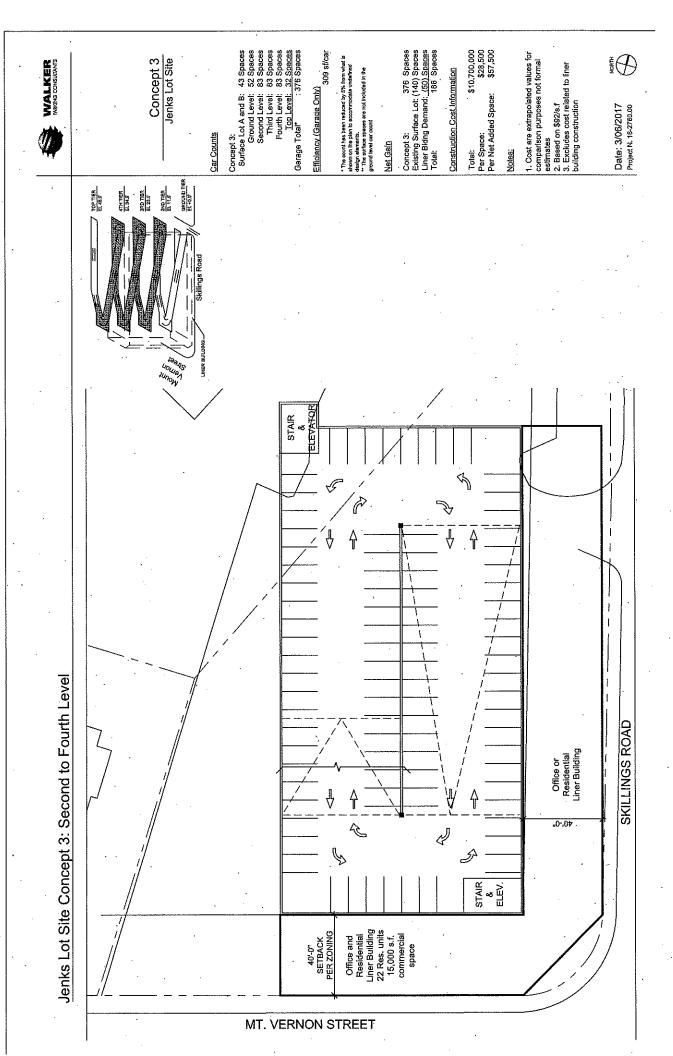
Concept 3: 376 Spaces Existing Surface Lot: (140) Spaces Liner Bidng Demand: (50) Spaces Total:

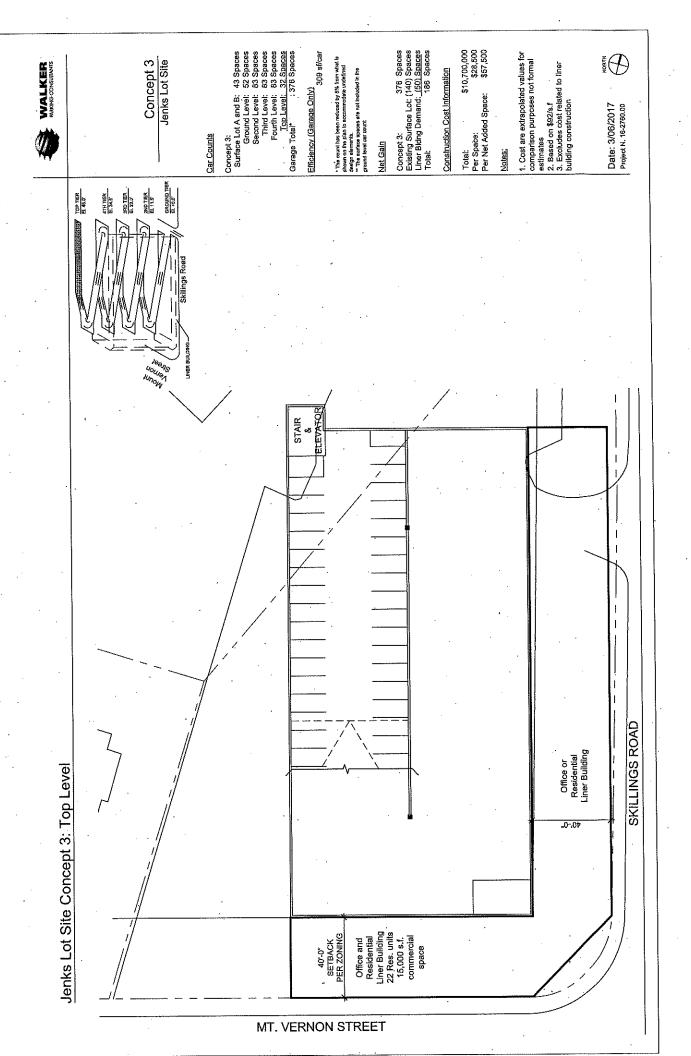
Construction Cost Information

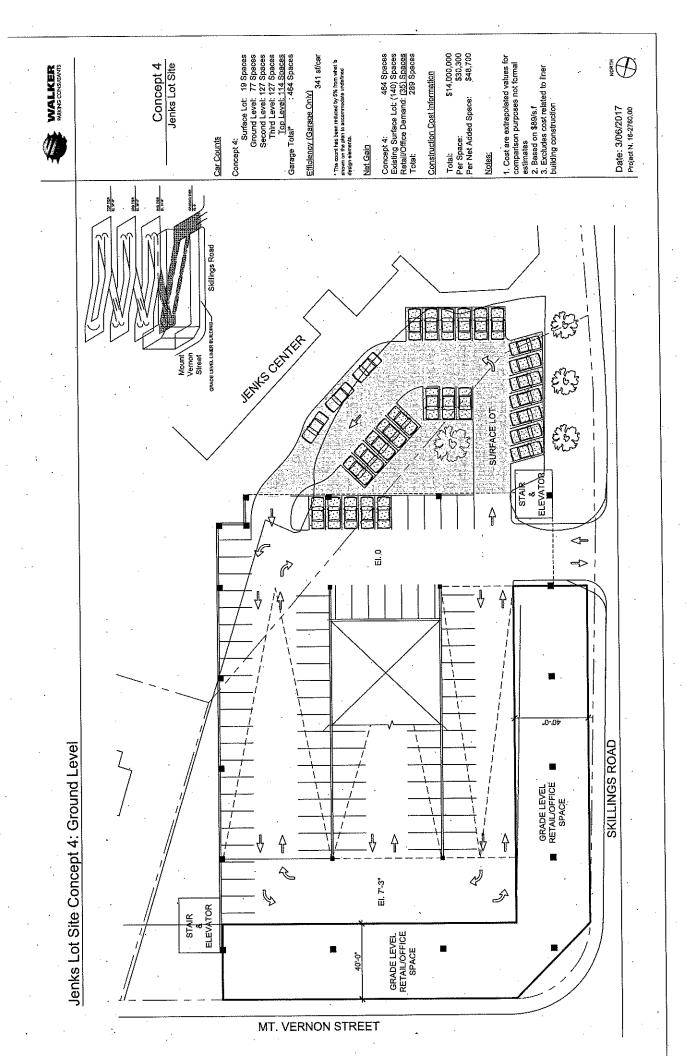
\$10,700,000 \$28,500 11 \$57,500

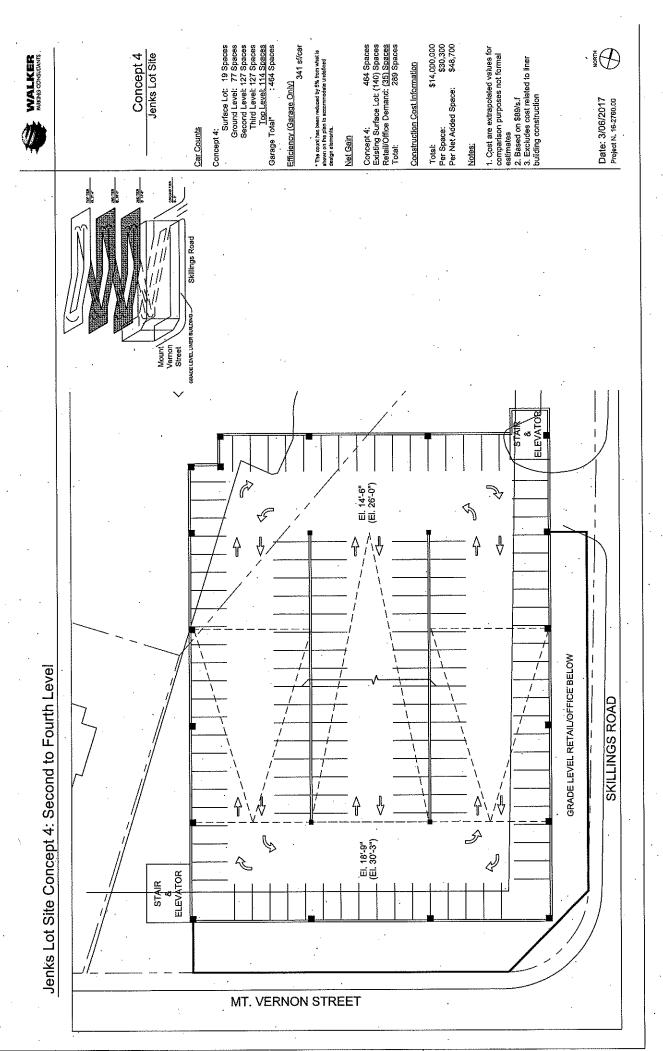
1. Cost are extrapolated values for comparison purposes not formal estimates

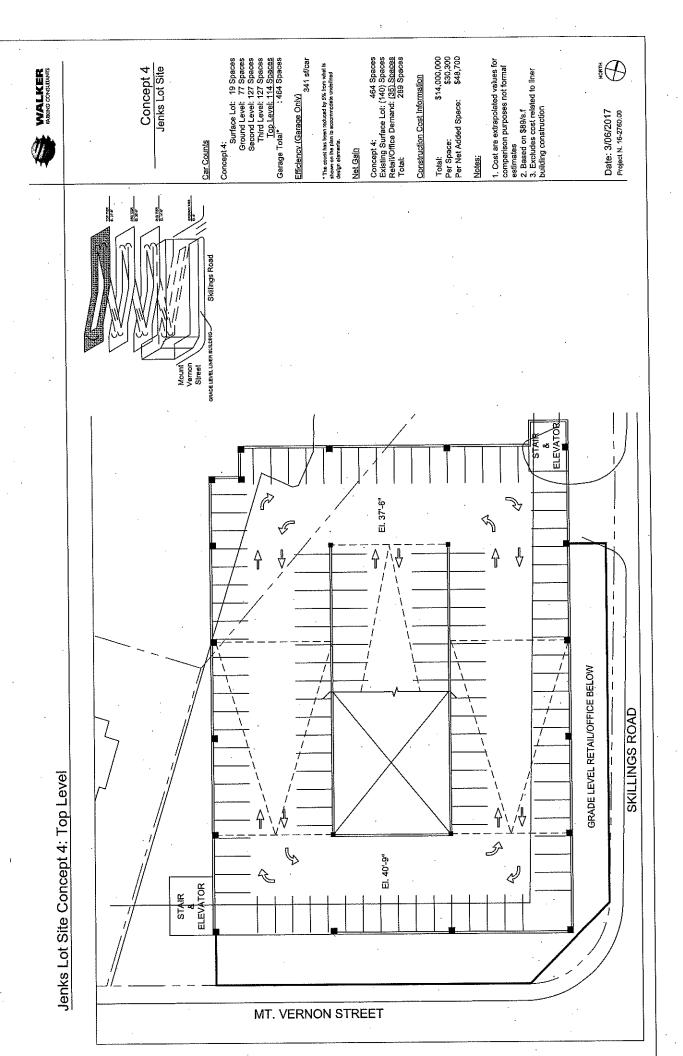


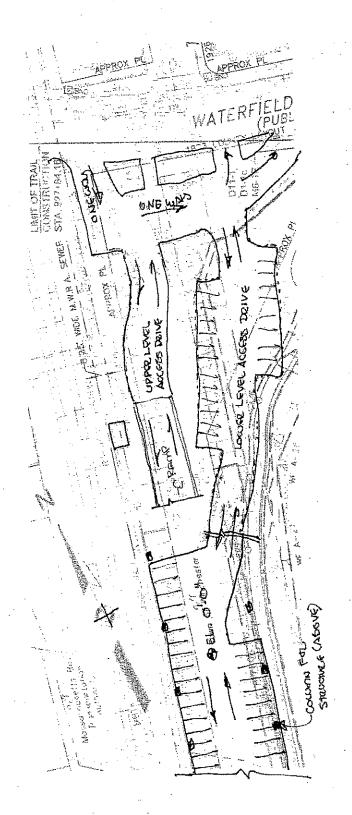




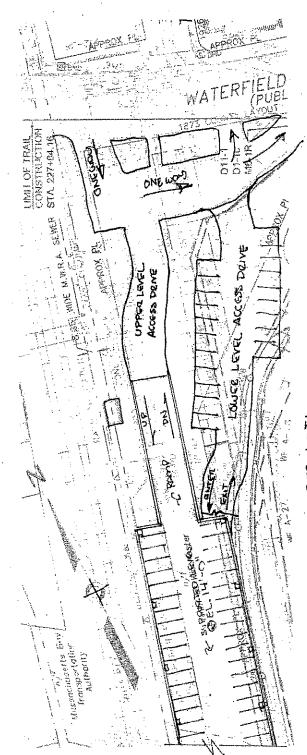








ABERJOINA MPTA LOT: LOWER LEVEL PARKING ACCESS PLAN



ABERJONA MBTA LOT:
UPPER LEVEL PAZICING ACCES PRON





Concept 1: 211 Spaces Existing Surface Lott (125) Spaces Total: 86 Spaces

WALKER PARISHO CONSUITANTS



Date: 05/19/2017 Project N. 16-2760.00



Car Counts

Concept 2:
Ground Level: 114 Spaces
Top Level: 95 Spaces
Garage Total* : 209 Spaces

Efficiency (Garage Only)

CONSTRUCTION STA, 227+84,16

COMPANY THE STATE OF THE PARTY OF THE PARTY

PARE ROAD STATION 1 STATE W.W.R.A. SEWER

10 5' HIGH WAL

STAIR! ELEVATOR TOWER:

€

Transportation 9 Juthority

(e)

ANT HOTAN

Net Galn

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Concept 2: 209 Spaces Existing Surface Lot: (125) Spaces Total: 84 Spaces

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GROUND LEVEL ACCESS DRIVE

\$5,225,000 \$25,000 \$62,200 Total:

Per Space: Per Net Added Space:

OPPER LEVEL ACCESS DRIVE

202

based on concept level design information and extrapolated s.f. values. Information is for option comparison purposes only. 2. Based on \$74/s.f. Cost estimate information is

WATERFIELD RD.
(PUBLIC) AND
1873 COUNTY LAYOUT

A. S. 100

WF GATB-111 ABERIGNA RIVER

MATCH LINE 72

WF G478-110

WF A-26

WF. A-25

WF A-24

September 1 Septem

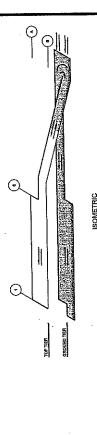
CONST BL -

1846 STATE (M.D.C.) LAYOUT PROP OUT

4 2

Date; 05/19/2017 Project N. 16-2760,00

F (D)

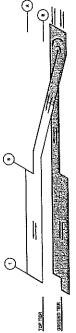


ISOMETRIC

Aberjona Lot Site Concept 2: Ground Level

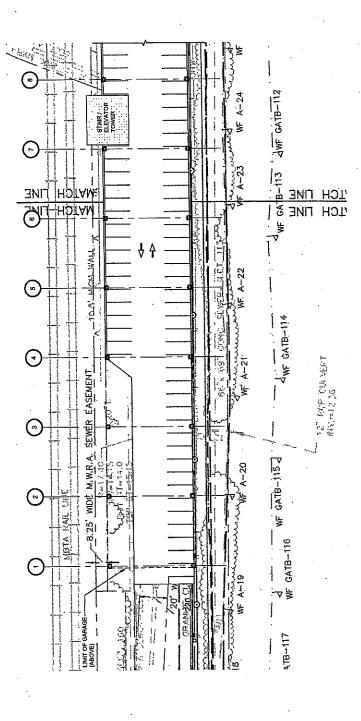
Aberjona Lot Site Concept 2: Ground Level

Sheet 2 of 3



TOP TER

SOMETRIC



Car Counts

Concept 2:
Ground Level: 114 Spaces
Top Level: 95 Spaces
Garage Total* : 209 Spaces

Efficiency (Garage Only) 338 sffcar

Net Gain

Concept 2: 209 Spaces Existing Surface Lot: (125) Spaces Total: 84 Spaces

Construction Cost Information

\$5,225,000 \$25,000 \$62,200 Total: \$8 Per Space: Per Net Added Space:

Information and extrapolated s.f. values. Information is for option comparison purposes only.

2. Based on \$74/s.f. . Cost estimate information is pased on concept level desig

Date: 05/19/2017 Project N. 15-2760.00

MORTH MORTH

Sheet 1 of 3

Car Counts

Concept 1:

Ground Level: 103 Spaces Second Level: 126 Spaces Top Level: 110 Spaces Garage Total* : 339 Spaces

Total: Per Space: Per Net Added Space:

EGHESS

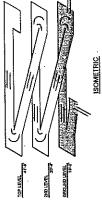
♣ El. 19-0*

S p

based on concept level design information and extrapolated s.f. values. Information is for option. comparison purposes only. 2. Based on \$68/s.f . Cost estimate information is

MYSTIC VALLEY PKWY

ğ (D Date: 05/19/2017 Project N. 16-2760.00



Wedgemere Lot Site Concept 1: Ground Level

EXISTING PEDESTRIAN—RAMP TO BE ELIMINATED

RAMP TO PLATFORM (ABOVE)

Efficiency (Garage Only) 323 sf/car

Vet Galn

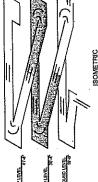
Concept 1: 339 Spaces Existing Surface Lott (124) Spaces Total: 215 Spaces

Construction Cost Information

\$7,850,000 \$23,150 \$36,500

Wedgemere Lot Site Concept 2: Second Level

Sheet 2 of 3



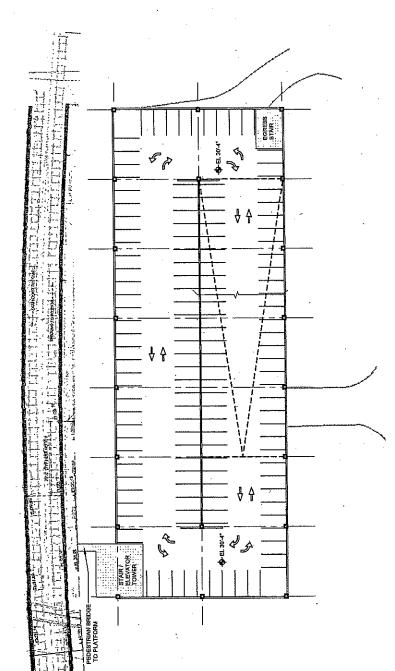
Ground Level: 103 Spaces
Second Level: 126 Spaces
Top Level: 110 Spaces
Garage Totel: : 339 Spaces

Car Counts Concept 1: Efficiency (Garage Only) 323 sifcar

* The count has been reduced by 5% from what is strown on the plan to eccommodate undefined design elements.

Net Galn

15 SOMETRIC AND LEVEL. GROUND LEVEL



\$7,850,000 \$23,150 \$36,500

Total: \$
Per Space:
Per Net Added Space:

Notes:

Coet estimate information is based on concept level design information and extrapolated s.f. values. Information is for option comparison purposes only.
 Based on \$68/s.f.

de de la companya de

Date: 05/19/2017 Project N. 16-2760.00

Concept 1: 339 Spaces Existing Surface Lot: (124) Spaces Total: 215 Spaces

Construction Cost Information

Sheet 3 of 3

Concept 1:

Ground Level: 103 Spaces
Second Level: 126 Spaces
Top Level: 110 Spaces
Garage Total* : 339 Spaces

Net Galn

Concept 1; 339 Spaces Existing Surface Lot: (124) Spaces Total:

Total: \$*
Per Space:
Per Net Added Space:

ECHESS

ф. E. 43'-4"

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E P

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J.

STAIR/ ELEVATOR TOWER

Cost estimate Information is based on concept level design information and extrapolated s.f. values. Information is for option comparison purposes only.
 Based on \$68/s.f.

Date: 05/19/2017 Project N. 16-2750.00





Wedgemere Lot Site Concept 2: Top Level

Car Counts

Construction Cost Information

\$7,850,000 \$23,150 \$36,500

| Efficiency (Garage Only) | 323 sifcar

1 The count has been reduced by 5% from what is shown on the plan to accommodate undefined design elements.

AF (D)