

AGENDA

- **01 /** Preferred Campus Master Plan
- **02 /** Summary Transportation
- **03 /** Summary Stormwater
- **04 /** Next Steps

01/ PREFERRED CAMPUS MASTER PLAN





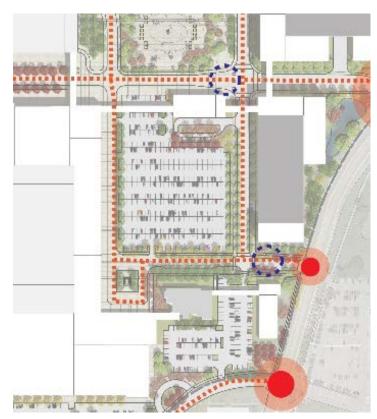


02/ SUMMARY TRANSPORTATION

AEC MULTI-MODAL INTERNAL CIRCULATION

NEXT STEPS

- Evaluate phasing of Ring Road implementation with future developments
- Work with developments on parking and drop-off circulation
- Site developments should consider:
 - ADA parking and access
 - o Bike Parking & Bike Share
 - Bus Transit
 - Car Share / Taxi
 - o Electric vehicle charging
 - Shuttles



AEC JOHN NOLAN INTERSECTION

NEXT STEPS

- Feasibility Study
 - John Nolan is under jurisdiction of Dane County. Traffic signals are owned and operated by City of Madison
 - Develop traffic forecasts for the AEC site and adjacent roadways
 - Complete Traffic Study for John Nolan Drive from Rimrock Rd. to Olin Ave. for both non-event and event traffic scenarios
 - Creating conceptual design plans for proposed changes



AEC RIMROCK INTERSECTION MODIFICATIONS

NEXT STEPS

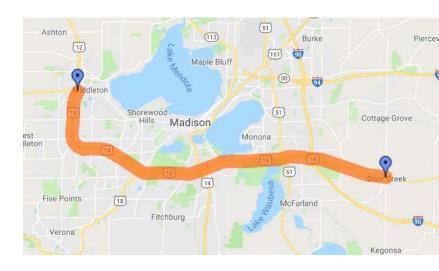
- Feasibility Study
 - Coordinate with WisDOT Beltline PEL Study
 - Coordinate AEC Master Plan traffic projections with Madison Area Transportation Planning Board (MATPB) Land Use plan and projections
 - Develop traffic forecasts for the AEC site and adjacent roadways
 - Complete Traffic Study of both the intersections, interchanges and ramp weaving on the Beltline
 - Creating conceptual design plans for proposed interchange modifications



AEC RIMROCK INTERSECTION MODIFICATIONS

WisDOT Beltline Planning and Environment Linkages study

- o PEL Study includes 19 miles of Madison Beltline (US 12, 14, 18 and US 151) from Middleton to Cottage Grove, in Dane County
- Purpose of PEL study is to analyze improvement concepts for travel to, from and across the Beltline by all ground-based modes.
- Concepts are evaluated based on if and to what extent they have the potential to address existing and future safety, congestion and pavement and structures issues.
- o Enhancing and integrating multi-modal accommodations is also a study goal.
- o The Beltline mainline, interchanges and potential new and existing crossings are all being studied. The scope of the analysis also incorporates cross-road intersections near the interchanges to ensure effects on and compatibility with the local system is understood and addressed where needed.



P E R K I N S + W I L L perkinswill.com

AEC RIMROCK INTERSECTION MODIFICATIONS

From WisDOT Beltline PEL study:

- o Existing Traffic JND = 126,900 ADT (2015)
- Future Traffic (no build) at JND = 153,500 ADT (2030)
- WisDOT studied Rimrock Road/John Nolen individually, as a pair and as part of the Park Street to West Broadway
- o Both Rimrock road ramp intersections and the Rusk Road/Rimrock Road intersection operated at LOS C or better in 2012.
- Some improvements to turn lanes would allow the current Rimrock Road diamond configuration to remain and provide LOS C or better at these intersections in 2050, based upon current approved land use plans for Dane County.
- Existing Beltline weaving issues east and west of the two interchanges contribute to mainline congestion in the Park Street to West Broadway section of the Beltline. Reducing weaving issues could require ramp configuration changes or even elimination of specific ramps.



AEC TRIP GENERATION

Phase 1

Trip Generation

Ι	AEC	ITE			Weekday		AM Peak	i		PM Peak			Sat Peak	
- [Site	Code	ITE Land Use		Daily Trips	ln	Out	Total	In	Out	Total	In	Out	Total
-[H2	310	Hotel	Trip Rates and Directional	8.36	59%	41%	0.47	51%	49%	0.6	56%	44%	0.72
- [×		300 Rooms	Trips	2510	85	55	140	90	90	180	120	95	215
		Total Trips	P 45 - 5 P - P - P - P - P - P - P - P - P		2,510	85	55	140	90	90	180	120	95	215

Phase 1A

Trip Generation

AEC	ITE			Weekday		AM Peak	(PM Peal	(7	Sat Peak	
Site	Code	ITE Land Use		Daily Trips	In	Out	Total	In	Out	Total	In	Out	Total
R3	221	Multifamily Housing (Mid-Rise)	Trip Rates and Directional	5.44	26%	74%	0.36	61%	39%	0.44	49%	51%	0.44
		180 Dwelling Units	Trips	980	15	50	65	50	30	80	40	40	80
H1	310	Hotel	Trip Rates and Directional	8.36	59%	41%	0.47	51%	49%	0.6	56%	44%	0.72
		180 Rooms	Trips	1505	50	35	85	55	55	110	75	55	130
	710	General Office Building	Trip Rates and Directional	9.74	86%	14%	1.16	16%	84%	1.15	54%	46%	0.53
		38,500 Square Feet GFA	Trips	375	40	5	45	5	40	45	10	10	20
	820	General Retail (Shopping Center)	Trip Rates and Directional	37.75	62%	38%	0.94	48%	52%	3.81	52%	48%	4.5
		23,470 Square Feet	Trips	885	10	10	20	45	45	90	55	50	105
	930	Fast Casual Restaurant	Trip Rates and Directional	315.17	67%	33%	2.07	55%	45%	14.13	55%	45%	34.02
2 Total		8,000 Square Feet	Trips	2520	10	5	15	65	50	115	150	120	270
	931	Quality Restaurant	Trip Rates and Directional	84.84	50%	50%	0.73	67%	33%	7.8	59%	41%	10.68
1 Total		12,000 Square Feet	Trips	1020	5	5	10	65	30	95	75	55	130
	932	High-Turnover (Sit-Down) Restaurant	Trip Rates and Directional	112.18	55%	45%	9.94	50%	50%	9.77	51%	49%	11.19
2 Total		16,000 Square Feet	Trips	1795	90	70	160	80	75	155	90	90	180
	936	Coffee Shop	Trip Rates and Directional	754.55	51%	49%	101.14	50%	50%	36.31	49%	51%	59.01
1 Total		2,000 Square Feet	Trips	1510	100	100	200	40	35	75	60	60	120
	Total Trips	11.10 C.		10,590	320	280	600	405	360	765	555	480	1,035

Future Phases

Trip Generation

AEC	ITE			Weekday		AM Peak	(PM Peal	(Sat Peak	
Site	Code	ITE Land Use		Daily Trips	In	Out	Total	In	Out	Total	In	Out	Total
R1 & R2	221	Multifamily Housing (Mid-Rise)	Trip Rates and Directional	5.44	26%	74%	0.36	61%	39%	0.44	49%	51%	0.44
	0/0-25-5	295 Dwelling Units	Trips	1605	25	80	105	80	50	130	65	65	130
Н3	310	Hotel	Trip Rates and Directional	8.36	59%	41%	0.47	51%	49%	0.6	56%	44%	0.72
	0.000	180 Rooms	Trips	1505	50	35	85	55	55	110	75	55	130
	710	General Office Building	Trip Rates and Directional	9.74	86%	14%	1.16	16%	84%	1.15	54%	46%	0.53
		38,000 Square Feet GFA	Trips	370	40	5	45	5	40	45	10	10	20
	820	General Retail (Shopping Center)	Trip Rates and Directional	37.75	62%	38%	0.94	48%	52%	3.81	52%	48%	4.5
		55,830 Square Feet	Trips	2110	30	20	50	105	110	215	130	120	250
	932	High-Turnover (Sit-Down) Restaurant	Trip Rates and Directional	112.18	55%	45%	9.94	50%	50%	9.77	51%	49%	11.19
1 Total		8,000 Square Feet	Trips	895	45	35	80	40	40	80	45	45	90
	Total Trips			6,485	190	175	365	285	295	580	325	295	620

745

1,525

1,000

870

1,870

03/ SUMMARY STORMWATER

BACKGROUND

- Statewide Standards (Wisconsin Administrative Code) 2005
 - 20% Reduction of "Total Suspended Solids" (TSS) by March 10,
 2008
 - o 40% Reduction of TSS by March 10, 2013
- Dane County Study 2009
 - Sitewide evaluation of 161-acres of land
 - AEC is achieving 42% reduction of TSS

2018 CAMPUS MASTER PLANNING

- Site Planning
 - o Proposed Land Uses
 - Stormwater Treatment Locations
- Conceptual Stormwater Analysis
 - o Modeled Concept Master Plan
 - Sitewide TSS Reduction Approx. 70%



2018 CAMPUS MASTER PLANNING

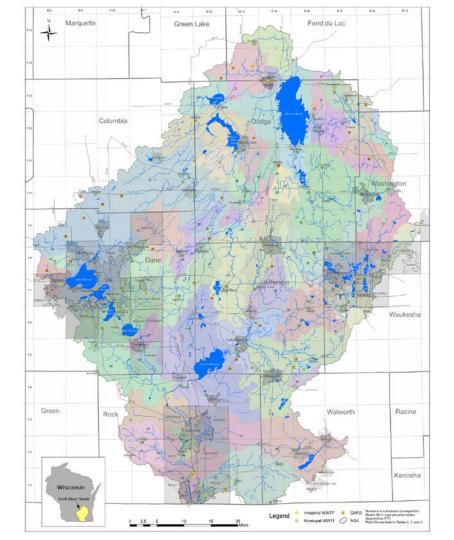
Conceptual Stormwater Analysis
 Four Drainage Areas:

		<u>Existing</u> P	roposed
1.	NW	97%	90%
2.	NE	67%	70%
3.	SE	0%	45%
4.	SW	0%	70%
SITE	WIDE	42%	70%



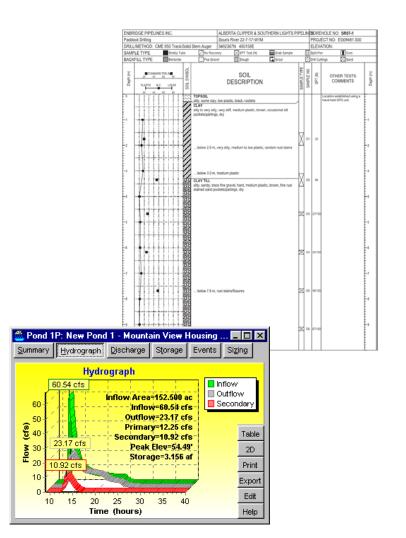
ADDITIONAL CONSIDERATIONS

- Rate Control
 - Requires Further Design Development
 - Maintain Post-Development at or Below Existing Rates
- Stricter Regulations
 - Higher TSS Removal Rates (Rock River TMDL – Annexation)
- o Other Goals
 - Volume Reduction
 - o Phosphorus Reduction



NEXT STEPS

- Design Development
 - Geotechnical Data (Soil Types)
 - Groundwater Elevations
 - o Grading Design
 - o Routing Confirmation
 - Design Outlet Structures
 - Model Runoff Rates



NEXT STEPS (cont.)

- Stormwater Features/Best Management Practices
 - Wet Ponds
 - o Infiltration Basins
 - o Bioswales / Bioretention
 - o Pervious Pavement
 - Underground Storage
 - Maintenance (Street Sweeping, Periodic Cleaning of Stormwater Conveyance/Retention Features





04/ NEXT STEPS

		Mont	h 1				Month 2				Mo	nth 3				Month 4			N	Month 5				Mon	th 6				Mon	th 7				Mon	nth 8				Mo	onth 9
		March	-18				April-18				Ma	sy-18				June-18				July-18				Augu	st-18				Septem	ber-18				Octob	ber-18				Nove	mber-1
Week #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	5 1	16 1	7 1	8 19	9	20 2	1 2	2 23	24	2	5 2	6	27	28	29	30	31	32	2 :	33	34	35	36	37	38
Week Beginning	5-Mar 1	12-Mar	19-Mar 2	26-Mar	2-Apr	9-Apr	16-Apr	23-Apr	30-Apr	7-May	14-May	21-Mag	28-Ma	y 4-Ju	in 11-J	lun 18-	-Jun 25	Jun 2-	lul 9-J	ul 16	6-Jul 23	Jul 30	Jul 6-Au	g 13-A	ug 20-	Aug 27-	Aug 3	B-Sep 1	10-Sep	17-Sep	24-Se	p 1-0c	t 8-0	Oct 15	5-Oct 22	.2-Oct	29-Oct	5-Nov	12-Nov	19-1
The state of the s																											-													
IASE 1 - DISCOVERY	_																	_									_									_				_
ommunity Engagement Plan																																								
ck Off Meeting and Visioning		• 1	Kick-off, M	arch 15														_									_									_				
sting Document + Data Review																											_									_				-
mpus Inspection + Assessment																		-					_		-		_									-				
cility Analysis					_						1							_							_		-									_				
eetings and Workshops				-			•	OC, UP,	and CE N	leeting, A	April 16-1	7	-										-		-		-					_	_			-				+
ubmission of Phase 1 Documentation				-			۰							Subm	nission of	Discover	ry Docume	ntation							-		-					-				-				-
AT Meetings (some by phone/web)		+	-	-		-																					-						+		+	-				+
ASE 2 - GENERATING IDEAS																																								
ilding Program																											_									_				
ncept Plans				_																			_				_						_			_				-
aster Plan Concepts																			Conc	ept Sur	vey						_													_
mmercial/Hospitality Alternatives				_																			_				_						_	_	_	_				_
st Selected Concept																_											_									_				
fine Preferred Concept				_																			_		_		_						_		_	-				-
st Estimates																																								-
etings and Workshops				-									OC, OH,	, P, MAD	June 19	-20	•									P Meetin	g, Augu	ıst 7-8					_			-				-
ubmission of Phase 2 Documentation				-																	sion of Id	eas Doc	umentatio	n 🗆			-					-			-	-				-
AT Africings (some by phonolweb)				-													٠	-																						
IASE 3 - IMPLEMENTATION + PHASING																																								
aft Recommendations + Phasing																																								
fine Phasing Priorities																																								
eliminary Draft Report																																								
alize Master Plan																																								
nalize Recommendations																																								
al Document																																								
etings and Workshops																									ос, он,	AHVP M	leeting,	Septem	ber 19						g, Novem	aber 1				
bmission of Phase 3 Documentation																														S	ubmissio	on of Imp	lementar	tion				Final D	ocumen.	t E
IT Meetings (some by phone/web)																																1	4							

SCHEDULE

- Oversight Committee Meeting/Joint Open House
 - October 15th
- Draft Master Plan Document
 - November 5th
- County Board Meeting
 - December 20th















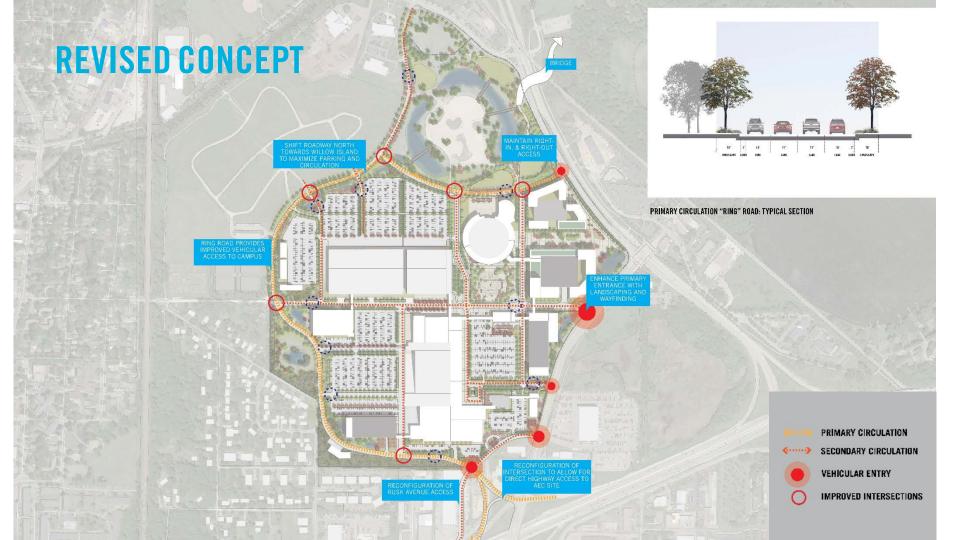


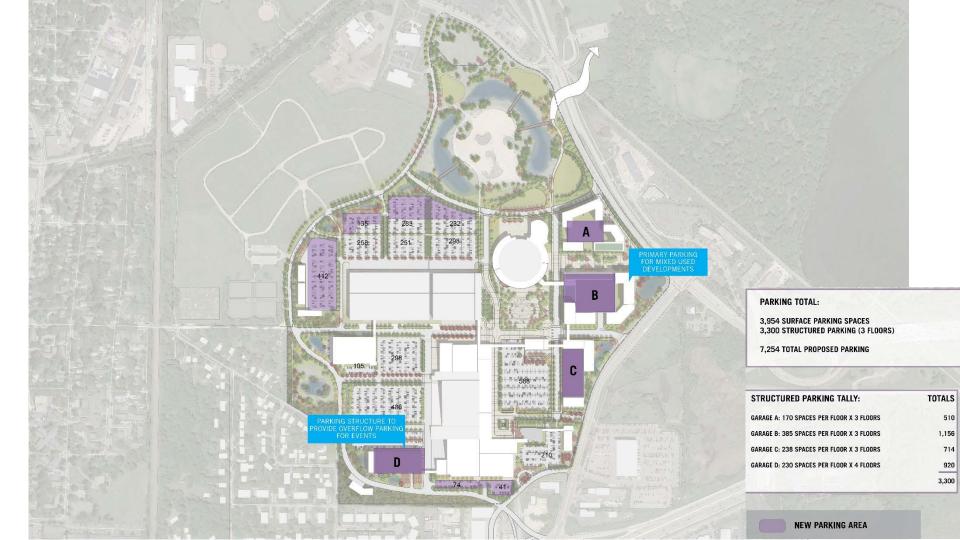






EXTRAS





All Mixed Use

All Mixed OSE						
General Land Use Classification		Weekdays			Weekends	
	2:00am-	7:00am -	6:00pm -	2:00am-	7:00am -	6:00pm -
	7:00am	6:00pm	2:00am	7:00am	6:00pm	2:00am
Office	5%	100%	5%	0%	10%	0%
	14	276	14	0	27	0
Retail Sales and Services	0%	90%	80%	0%	100%	60%
	0	56	50	0	63	38
Restaurant (Not 24 Hours)	10%	70%	100%	20%	70%	100%
	15	102	146	30	102	146
Residential	100%	60%	100%	100%	75%	90%
	522	313	522	522	391	469
Hotel	100%	55%	100%	100%	55%	100%
	536	244	536	536	294	536
Conference/Convention Facilities	0%	100%	100%	0%	100%	100%
	0	0	0	0	0	0
	1087	991	1268	1088	877	1189

Phase 1 Mixed Use

riiase I iviikeu Ose							_
General Land Use Classification		Weekdays	5		Weekends	5	Remove 262 stal
	2:00am-	7:00am -	6:00pm -	2:00am-	7:00am -	6:00pm -	1
	7:00am	6:00pm	2:00am	7:00am	6:00pm	2:00am	
Office	5%	100%	5%	0%	10%	0%	
Retail Sales and Services	0%	90%	80%	0%	100%	60%	
	0	18	16	0	20	12	
Restaurant (Not 24 Hours)	10%	70%	100%	20%	70%	100%	
	5	31	45	9	31	45	
Residential	100%	60%	100%	100%	75%	90%	
	324	194	324	324	243	291	
Hotel	100%	55%	100%	100%	55%	100%	1
	0	0	0	0	0	0	
Conference/Convention Facilities	0%	100%	100%	0%	100%	100%	
	0	0	0	0	0	0	
	329	243	385	333	294	348	-

Remove 1218 stalls Phase 2 Mixed Use Congress Land Use 0

General Land Use Classification		Weekdays			Weekends	
General Land Ose Classification						
	2:00am-	7:00am -	6:00pm -	2:00am-	7:00am -	6:00pm -
	7:00am	6:00pm	2:00am	7:00am	6:00pm	2:00am
Office	5%	100%	5%	0%	10%	0%
	6	123	6	0	12	0
Retail Sales and Services	0%	90%	80%	0%	100%	60%
	0	22	20	0	25	15
Restaurant (Not 24 Hours)	10%	70%	100%	20%	70%	100%
	6	42	60	12	42	60
Residential	100%	60%	100%	100%	75%	90%
	198	118	198	198	148	178
Hotel	100%	55%	100%	100%	55%	100%
	176	97	176	176	97	176
Conference/Convention Facilities	0%	100%	100%	0%	100%	100%
	0	0	0	0	0	0
	386	402	460	386	324	429

Phase 3 Mixed Use

General Land Use Classification		Weekdays			Weekends		Re
	2:00am-	7:00am -	6:00pm -	2:00am-	7:00am -	6:00pm -	1
	7:00am	6:00pm	2:00am	7:00am	6:00pm	2:00am	
Office	5%	100%	5%	0%	10%	0%]
	8	157	8	0	16	0	1
Retail Sales and Services	0%	90%	80%	0%	100%	60%]
	0	0	0	0	0	0	
Restaurant (Not 24 Hours)	10%	70%	100%	20%	70%	100%]
	3	22	32	6	22	32	1
Residential	100%	60%	100%	100%	75%	90%]
	0	0	0	0	0	0	
Hotel	100%	55%	100%	100%	55%	100%]
	153	84	153	153	84	153	1
Conference/Convention Facilities	0%	100%	100%	0%	100%	100%	1
	0	0	0	0	0	0	Ī
	164	263	193	159	122	185	-

Remove 534 stalls

Remove 422 stalls



r nase z Bevelopii	nents			
		QTY	COST	FINAL
Private Development	_			
	Removals	1	373700	'
	Grading + Site Improvements	1	267900	
	Parking Ramp	1	24276000	, ,
	Public Road with streetscape	1	28450	,
	Public Plaza	1	192150	. ,
	Public Plaza landscape	1	117400	, , , , , , , , , , , , , , , , , , , ,
	Residential Development	1	27000000	\$ 27,000,000.00
	Hotel Deveopment	1	46750000	\$ 46,750,000.00
	Retail Development	1	2702400	\$ 2,702,400.00
	Mixed Use Development	1	15300000	\$ 15,300,000.00
	Contingency 8%		\$ 9,360,640.00	\$ 9,360,640.00
			TOTAL	\$ 126,368,640.00
Gateway Plaza				
	Removals	1	74600	,
	Grading + Site Improvements	1	142900	\$ 142,900.00
	Landscape Improvements	1	551700	,
	Paving	1	1650300	\$ 1,650,300.00
	Stormwater Management	1	31700	\$ 31,700.00
	Lighting + Electrical	1	64700	\$ 64,700.00
	Contingency 8%		\$ 201,272.00	\$ 201,272.00
			TOTAL	\$ 2,717,172.00
Arena				
	Removals	1	38450	
	Grading + Site Improvements	1	42800	
	Building Expansion	1	6435300	. , ,
	Parking Lot	1	168000	
	Stormwater Improvements	1	3800	, , , , , , , , , , , , , , , , , , , ,
	Landscape Improvements	1	16800	\$ 16,800.00
	Lanuscape improvements	1	10000	20,000.00
	Contingency 8%	1	\$ 536,412.00	\$ 536,412.00

Headquarters Hotel (300 rooms)			
Removals	1	45300	\$ 45,300.00
Grading + Site Improvements	1	61400	\$ 61,400.00
Building Expansion	1	82547600	\$ 82,547,600.00
Parking Lot	1	18700	\$ 18,700.00
Streetscape	1	33500	\$ 33,500.00
Landscape Improvements	1	14800	\$ 14,800.00
Contingency 8%		\$ 6,617,704.00	\$ 6,617,704.00
		TOTAL	\$ 89,339,004.00

4				
Ring Road and Parking				
	Removals	1	268700	\$ 268,700.00
	Grading + Site Improvements	1	67800	\$ 67,800.00
	Road Improvements	1	1559000	\$ 1,559,000.00
	Parking Lot	1	1012500	\$ 1,012,500.00
	Streetscape	1	68000	\$ 68,000.00
	Stormwater Improvements	1	74900	\$ 74,900.00
	Landscape Improvements	1	96800	\$ 96,800.00
	Contingency 8%		\$ 251,816.00	\$ 251,816.00
			TOTAL	\$ 3,399,516.00

PHASE 1 - Expo Expansion			
Removals	1	386900	\$ 386,900.00
Grading + Site Improvements	1	347100	\$ 347,100.00
Building Expansion	1	69429300	\$ 69,429,300.00
Parking Lot	1	189700	\$ 189,700.00
Entry Drive +Landscape	1	193500	\$ 193,500.00
Stormwater Improvements	1	68700	\$ 68,700.00
Road and Drop-off	1	2729250	\$ 2,729,250.00
Public Realm/Streetscape	1	251800	\$ 251,800.00
Landscape Improvements	1	112900	\$ 112,900.00
Contingency 5%		\$ 3,685,457.50	\$ 3,685,457.50
		TOTAL	\$ 77,394,607.50

ADDITIONAL PROJECTS

- Coliseum NW locker/dressing room addition
 - Approx. \$1.7 million
- Coliseum Expanded loading dock
 - Approx. \$460k
- Coliseum Remodel existing locker room
 - Approx. \$850k
- Feasibility study for Phase 1 Expo Hall Expansion
 - Approx. \$200k
- Others?