

Memorandum

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Subject Technical Memorandum - Imperial County Transportation Commission (ICTC)

Administration Building and Bus Maintenance/Operations Test Fit - Site Plan

Project Name ICTC New Bus Maintenance/Operations Facility and Administration Building at 450 West

Aten Road, Imperial, CA 92251

Attention David Aguirre, ICTC Project Manager

From Fu Sun, PE, Jacobs

Steve Silkworth, Jacobs Douglas Frazier, Jacobs

Date May 4, 2022,

1. Introduction and Summary of The Task

This Memorandum summaries discussions and studies performed by Jacobs Engineering to assist ICTC in locating an acceptable, long-term location for fleet operations and maintenance, and all administrative functions by developing a test fit at a potential site.

Prior to this test fit, a preliminary review of the former Caltrans maintenance facility at Adams Avenue was considered. The location was found to be unacceptable due to limited space, substantial costs to renovate existing buildings, and other site deficiencies.

ICTC has recently identified a group of three parcels adjacent to, and operated by, the Imperial County Airport Authority. See **Attachment 1** Airport Parcel Map. The site is at 450 West Aten Road in Imperial, CA, and will be referred to as the West Aten site in this document. The parcels have been numbered Parcel 1 for the largest, primary site; Parcel 2 for the site immediately to the north and contiguous with Parcel 1; and Parcel 3 to the east of Parcel 1 and separated by the private road, Access Way.

In February of 2022, Jacobs, in continuing discussions with ICTC, developed an updated a Space Program in **Attachment 2** for all operations, maintenance, and administrative functions. The Space Program is a quantified summary of all sites and building square footage needs based on input from Imperial Valley Transit (IVT) and ICTC and updated from a previous program to include bus maintenance, fueling, bus wash, administration and operational space, site access, yard storage and parking for buses, staff, and visitors.

The objective of this task is to test fit current ICTC Space Program requirements at the West Aten location in a conceptual site plan for a new bus maintenance, operations, and ICTC administration facility, using the fleet size, operations and maintenance requirements, and administration spaces.

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The result of this test fit investigation is that the West Aten Parcels can accommodate the Space Program, specified fleet and administrative expansion goals. It is therefore feasible to continue further investigation of the site. Certain qualifications and recommendations are described in this Memorandum. See **Attachment 3** for the test fit layout plan.

Work activities associated with this task include:

- Updating the Space Program needs, fleet size, staffing, and functions for new bus base and ICTC administration building previously developed in January 2019
- Development of a site-specific West Aten Road overall site plan reflecting the updated program
- Investigation of the West Aten site to accommodate the full functionality of ICTC current and future expansion for fleet maintenance, operational and administrative functions
- Consideration of the most efficient integration of Parcels 2 and 3 into the overall site development strategy
- Consideration of future expansion that might include elements such as expanded fleet, Battery Electric Buses (BEB), or hydrogen fuel cell power systems
- Preparation of order of magnitude, Class 5 estimate of probable construction cost in today's dollars
- Development of a draft timeline for construction of the facility

Work activities which are not included with this Memo are:

- Detailed space layouts for Administration areas
- Structural and Seismic investigations of the existing building
- Detailed electrical and mechanical review and design for the existing building
- Environmental reviews of all parcels
- Traffic studies
- Solar power and alternative energy investigations

2. Existing Zoning

The Aten Road site is within the City of Imperial. Per the Zoning Map shown in **Attachment 4**, the Imperial County Airport is characterized as I-1 or General Industrial land use. This project assumes that the existing land use zoning will remain the same.

3. Summary of the Administration Building, Service Provider's Office and Revenue Center

The project site is owned by the County and has three leasable property sites. Parcel 1, the largest parcel has an existing leased building at the address of 450 West Aten Rd. Parcel 2, on the north side of Parcel 1 is contiguous along its 220-foot long south boundary. Parcel 3 is on the east side of Access Way with a 188-foot frontage on West Aten Road. The main site, Parcel 1, has an existing metal building that will be reused. All three sites appear to be outside the adjacent Airports Runway Protection Zone (RPZ)

The southern part of Parcel 1, along the West Aten Road. frontage, is currently occupied by a single-story metal building of 65,250 square feet. It is leased to a recreational activity company which occupies most, if not all of, the entire space. The current use of the building suggests that all utilities are operational and that mechanical and electrical systems are being maintained.



Utility upgrades and extensions will be required for development of all three parcels for the proposed vehicle fleet maintenance and parking operations.

Vehicle fleet, staff, and office space requirements have been updated with recent ICTC input. See the Space Program at the end of the memorandum, **Attachment 2**.

In the existing building, non-structural demolition will be required. New partitions, ceilings, and electrical, mechanical and telecom systems will be required.

The key points of the West Aten Rd Test Fit are:

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- The ICTC/SCAG administration operations and the service provider IVT office operations, and support staff will be located in the existing building after renovation. Support spaces for each agency such as staff offices, conference rooms, breakrooms, copy/mail rooms, and related support spaces are included in the program.
- Technical spaces such as IT/telecom and utility rooms are programmed and will be separate for ICTC/SCAG and IVT. Mechanical and electrical spaces will be metered separately.
- Staff administration and staff support areas for the service provider, IVT, will be located within the
 existing building.
- The ICTC, and SCAG requirements result in building program of approximately 10,300 square feet.
- The service provider IVT office area requirement is approximately 9.800 square feet.

The existing building is 65,250 square feet which is more than the required space for ICTC/SCAG and IVT and obviously allows space for expansion of staff offices or other uses. Use of the remaining building space is not included in this scope of this study.

4. Expansion

This program test fit for the West Aten Road site has determined that all operations can be located on the site, including recent updates and future expansion plans. This meets the ICTC requirement to identify a single location for long-term investment. It is important to understand that all three parcels must be acquired in this strategy.

- The program is based on a design fleet of 80 vehicles, an increase of 18 from the existing fleet of 62 vehicles. Additional 13 other vehicles are included as well.
- When computing number of bays in the maintenance building, all numbers are rounded up. Also, an "all purpose" bay is included to provide fleet expansion.
- Electric bus expansion is considered. The additional site, Parcel 2 on the north side of the fleet
 maintenance area, will allow ICTC to phase in alternate fuel vehicles with the expanded 80
 vehicle fleet by providing space for Battery Electric Bus recharging or hydrogen fuel equipment
 systems, if and when those systems are integrated into fleet operations.
- Additional administrative expansion space is also included, as indicated in Section 2 above,
- Total projected staff parking of 131 spaces is included within the existing layout of Parcel 1. The addition of Parcel 3 will increase public parking to approximately 140 to 150 spaces.

5. Summary of Updated Program and Test Fit

The updated Space Program (see **Attachment 4**) requires a total program area of 9.51 acres on a single parcel. Parcel A nearly meets this requirement, with 9.0 acres.



The two additional parcels of 1.8 acres and 1.5 acres can provide expansion of bus operations on the north, Parcel 2, and expansion of public overflow parking on the east side, Parcel 3

Transit vehicle circulation is considered adequate for the full expansion program, with flexibility for refinement of circulation.

Fleet parking layout is rational and efficient while still allowing flexibility for continuing study to suite specialized ICTC operational preferences.

Future studies may be undertaken to further optimize the current gas and diesel fuel operations with alternative fuel stations in Parcel 2 with an integrated central or co-located refueling circulation plan.

Additional circulation area is added to account for approaches, weaving, and run outs associated with the fuel and wash functions.

The West Aten site has apparently under-developed existing landscape which should be preserved and improved along the street frontages, with introduction of additional landscape planting in perimeter areas. The boundary between secure and public areas can also be studied for additional landscape planting.

6. Site Plan Features

The West Aten Test Fit site plan (**see Attachment 3**) described above, incorporates the requirements of the updated Space Program The following are notable features related to the site plan.

- The proposed site layout provides convenient access for all facility staff and for the public.
 Adequate existing staff and public parking is located along the east and north sides of the existing building. The Future Overflow Public Parking at Parcel 3 will be easily accessible with a new crosswalk.
- The size of the existing building also allows generous public circulation areas serving the ICTC/SCAG and the Bus Administration/Operations offices and includes adequate expansion opportunities.
- The Parcel 1 areas north of the existing building and public parking lot are considered the secured area and would be enclosed by a fence, secure staff entrances, and automatic vehicle gates.
- The "Main Gate" for fleet vehicles on Access Way allows revenue vehicles arrival with direct access to the fare vault, fueling, and vehicle wash, or directly to parking, depending upon vehicle servicing strategies initially, and in the future.
- The fare vault shown is intended to provide for fare removal immediately upon entering the site.
 An alternative would be fare removal while the vehicle is being fueled and would be closer to operations offices.
- The maintenance building is located to provide for back-to-back bays for cutoffs and pull through
 for larger vehicles. The maintenance bays are accessed on the east and west sides and provide
 clockwise circulation around the building for fuel and wash servicing. With doors on the east and
 west sides there will be good natural ventilation when overhead doors are open.
- Single loaded parking is provided for the 40-foot buses which provides easy and immediate pull in and pull out. Single loaded pull in and back-out spaces have been provided for Med Trans and IVT Access vehicles
- There is a second gate for emergency access further north of the bus yard "Main Gate" which
 also allows another exit gate or emergency gate. This gate could also be studied as an optional
 "Main Gate" for fleet vehicle entry which would result in a revised secure operations area and a
 counterclockwise vehicle flow.



- A third gate, driveway, and loading dock exists on the west side of the site with a connection to West Aten Road. This driveway and loading dock may be useful for a sub-lease tenant in the surplus building area. If the loading dock is not required, additional tenant parking can be created on the west side of the building.
- The site currently has a parking area entry driveway on the southeast corner. It is recommended
 that this driveway, opening directly onto West Aten Road, be closed. Public traffic entering and
 exiting the site in close proximity to the Access Way intersection may cause dangerous traffic
 issues. This closure should be discussed with the City Traffic department during design of the
 facility.
- There is a storm water detention/retention swale located in a narrow strip along the west property line. Location of storm water detention would ideally be located in the northern expansion Parcel 2 area but further drainage studies are needed to find the best location during design and concept development. The actual location will depend on further topographic and hydrology studies of the site

7. Additional Program Requirements

The following requirements are outside the scope of this test fit site plan task. However, they are being noted here so that they can be included in a design program at the appropriate time.

- Accessible drop off areas and parking spaces near the entrance of the ICTC/SCAG building.
- Xeriscape landscaping in front the existing building should be kept in place and improved.
- The ICTC offices need to be secured so that unauthorized persons cannot enter the secured spaces beyond the lobby.
- Site security, including lighting and cameras, should be incorporated.
- Currently there is limited covered parking at the existing facility. The new site plan should include covered fleet parking with photovoltaic panels on the roofs. The existing building roof may also be considered for solar power installations.
- Fuel tanks should be above grade and well protected.
- The site will require an emergency generator. The exact location has not been determined. In addition, space should be allocated in expansion areas of Parcel 2 for future electrical switch gear and charging equipment for battery electric buses or hydrogen storage tanks and systems for a future zero carbon fleet.

8. Order of Magnitude Cost Estimate

Order of magnitude cost estimate is summarized in **Attachment 5.** Assumptions are included in the notes at the bottom of the estimate. Depending on the available fundings for the project, an evaluation of phased improvements, optional improvements or future expansions is recommended to meet the near-term and long-term goals.

9. Construction Schedule

- See attached preliminary schedule in Attachment 6
- Concept Design 3 months for a 5-10% site and building program
- Final Design approximately 18 months
- · Approval and Bid 3 months



 Construction 1 year 4 months to substantial completion – could be broken into early phases for office areas that might be done earlier.

10. Conclusions and Recommendations

The following are conclusions and recommendations based on the updated program and site plan development:

- Prior to entering into formal negotiations with the Airport or County, ICTC should request investigation of the site for any environmental issues such as airport protection zones, undocumented hazardous materials, or restrictions for protected species.
- An assessment of existing utilities serving the site should be done to quantify the impact and approximate cost of services required by the proposed facility, including initial and future expansion.
- If future hydrogen fuel operations are to be included, a review of any regulatory issues about the fuel source in close proximity to an active airport operation should be performed.
- This test fit study should be advanced to a Concept Design level, a preliminary design from 5 to 10%.
- Long term feasibility of the site for ICTC operations requires that all three properties be acquired.
- Initial occupancy of the facility requires only 50% of the existing building area. Consideration should be given to temporary storage uses or subsidizing operating costs by sub-leasing the unused area of the building.
- An approach of phased improvements based on available fundings is recommended for nearterm or long-term expansions.

List of attachments:

Attachment 1: Airport Parcel Map

Attachment 2: Space Program

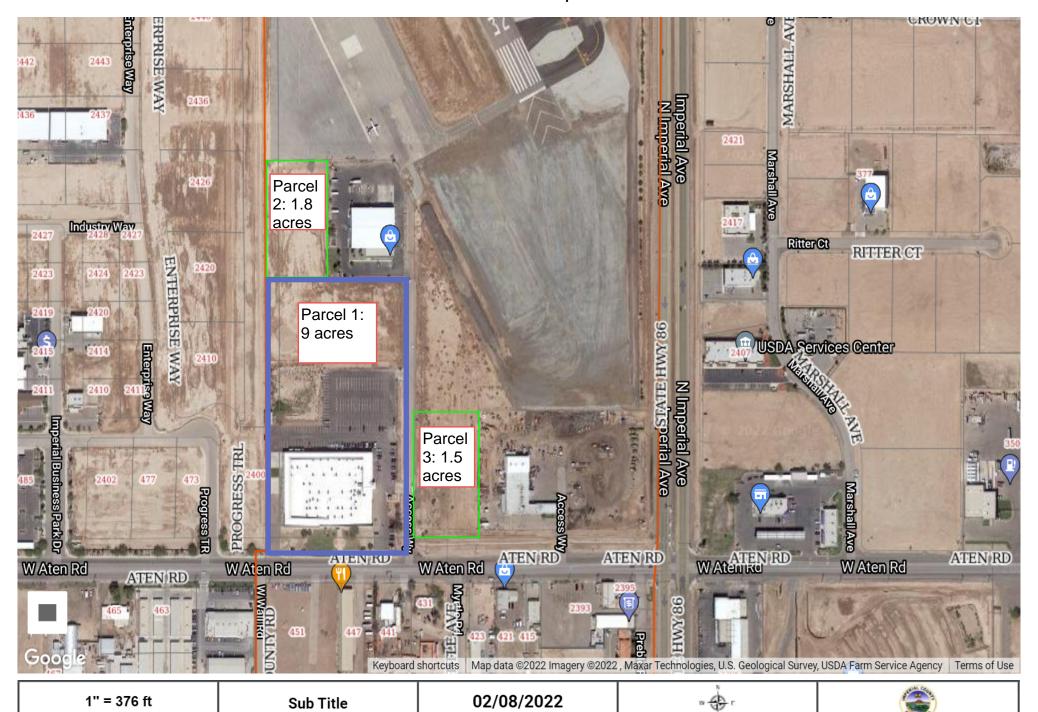
Attachment 3: West Aten Road Test Fit Site Plan

Attachment 4: Airport Zoning Map

Attachment 5: Opinion of Probable Cost

Attachment 6: Proposed Schedule

Attachment 1 Overall Map



This map may represents a visual display of related geographic information. Data provided here on is not guarantee of acutual field conditions. To be sure of complete accuracy, please contact the responsible staff for most up to date information.

Attachment 2

ICTC MAINTENANCE AND OPERATIONS FACILITY STUDY REVISED SPACE PROGRAM FOR GENERIC SITE LAYOUT SUMMARY OF SPACE REQUIREMENTS BY FUNCTIONAL AREA

		AREA	
FUNCTION	%	SQ. FT	ACRES
SITE REQUIREMENTS		57,300	1.32
FLEET PARKING		86,000	1.97
EMPLOYEE PARKING		45,000	1.03
PUBLIC PARKING		13,000	0.30
REVENUE CENTER		900	0.02
ICTC/SCAG FACILITY		10,300	0.24
ADMINISTRATION/OPERATIONS BUILDING		8,800	0.20
MAINTENANCE BUILDING		18,100	0.42
FUEL AREA		7,100	0.16
WASH (AUTOMATED WASHER)		4,600	0.11
SUBTOTAL		251,100	5.76
GENERAL CIRCULATION, SETBACKS, SITE ACCESS, AND EASEMENTS (1)	50%	109,000	2.50
SUBTOTAL		360,100	8.27
LANDSCAPING PER CITY REQUIREMENTS	15%	54,000	1.24
TOTAL PROGRAMMED REQUIREMENTS		414,100	9.51
ICTC UNPROGRAMMED FUTURE EXPANSION		87,000	2.00
TOTAL SITE REQUIREMENTS		501,100	11.50
RANGE OF SITE SIZES		10 TO 12 AC	CRES

⁽¹⁾ Factor not applied to storm water detention area

Note: Site areas greater than 5,000 sf rounded to nearest 1,000 sf; site areas less than 5,000 sf and buildings to nearest 100 sf.

ICTC MAINTENANCE AND OPERATIONS FACILITY STUDY REVISED SPACE PROGRAM FOR GENERIC SITE LAYOUT

SUMMARY OF SPACE REQUIREMENT DETAILS BY FUNCTIONAL AREA

		AREA	
FUNCTION	%	SQ. FT	ACRES
SITE FEATURES			
Hardscape Patio		1,300	0.03
Storm Water Detention		33,000	0.76
Approach, Weave, and Run Out Areas (Fuel and Wash)		23,000	0.53
Subtotal		57,300	1.32
PARKING			
Fleet Vehicle Parking		86,000	1.97
Employee Parking		45,000	1.03
Public, Handicapped, and Other Parking		13,000	0.30
Subtotal		144,000	3.31
ICTC FACILITY		,	
ICTC FACILITY		200	2.22
Reception Area		800	0.02
Offices (See Below for SCAG)		3,800	0.09
Conference Rooms		2,800	0.06
Employee Facilities		800	0.02
Common Areas		800	0.02
Technical Support Spaces	<u> </u>	400	0.01
Subtotal	<u> </u>	9,400	0.22
SCAG FACILITY			
Dedicated Spaces		900	0.02
Subtotal		900	0.02
CERVICE DROVIDER ADMINIORS			
SERVICE PROVIDER ADMIN/OPS		4 700	
Administration		1,700	0.04
Road Supervisions (All Modes)		600	0.01
Dispatching (All Modes)		900	0.02
Admin Common Areas		2,000	0.05
Driver Facilities (All Modes)		3,300	0.08
Support Spaces		300	0.01
Subtotal		8,800	0.20
REVENUE CENTER			
Revenue Center Building		900	0.02
Subtotal		900	0.02
MAINTENANCE BUILDING			
Office Areas		700	0.02
Employee Facilities		700	0.02
Repair/Inspection Bays		600	0.01
		11,400	0.26
Repair Shops		1,800	0.04
Shop Floor Storage Areas		1,700	0.04
Parts Storage		900	0.02
Support Areas		1,000	0.02
Subtotal	<u> </u>	18,100	0.42
FUEL AREA			
Fuel Building Offices		700	0.02
Fuel Lanes		6,400	0.15
Subtotal		7,100	0.16
WASH AREA			
Bays and Equipment Rooms		4,600	0.11
Subtotal	 	4,600 4,600	0.11
Jantotai		4,000	0.11
SUBTOTAL		251,100	5.53
GENERAL CIRCULATION, SETBACKS, SITE ACCESS, AND EASEMENTS (1)	50%	109,000	2.50
SUBTOTAL		360,100	8.27
LANDSCAPING PER CITY REQUIREMENTS	15%	54,000	1.24
TOTAL PROGRAMMED REQUIREMENTS		414,100	9.51
TOTAL I ROGRAMMED REQUIREMENTS		717,100	3.31
ICTC UNPROGRAMMED FUTURE EXPANSION		87,000	2.00
			_

⁽¹⁾ Factor not applied to storm water detention area

Note: Site areas greater than 5,000 sf rounded to nearest 1,000 sf; site areas less than 5,000 sf and buildings to nearest 100 sf.

					Pı	ogram				
			Space S	Standard			Q	ty.		
Space Name	Unit I	Dimon	sions	Gross	Dime	nsions	Nominal Occupancy	No. Required	A (OF)	Remarks
Space Name	Onic	Jilleli	ISIOIIS			UIREMENT		•	Area (SF)	neiliaiks
				<u> </u>						
SITE FEATURES										
Hardscaping										
Hardscape Patio		Х		25	Х	25	10	1	625	
Subtotal							4000/		625	
Circulation Factor Total Site Features							100%		625 1,250	
									1,230	
Storm Water Detention									22.572	
Storm Water Detention Subtotal									32,670 32,670	
Circulation Factor							0%		0	
Total Site Features							0,0		32,670	
PARKING										
Fleet Vehicle Parking										
IVT				- 10					44.05	Not and Entern 11 2
Buses 40' x 8.5'		х		12	Х	45	-	22	11,880	IVT and Future New Buses IVT and B/G/G Lines; use same size as
Cut Aways 26' x 8'		х		12	х	33		18	7,128	IVT Ride for flexibility
IVT Ride										·
Cut Aways 28' x 8.5'		Х		12	Х	33		16	6,336	
IVT Access Cut Aways 22' x 8'		х		11	х	27		12	3,564	
MedTrans						2,		12	3,301	
Cut Aways 22' x 8'		Х		11	Х	27		6	1,782	
MV1s MV1 17' x 6.6'		х		10	х	20		6	1,200	All services
Other Vehicles				- 10					1,200	, in services
Tow Truck				12		25		0	0	Not required
Company Cars Pickup Truck		x		10 11	X	20 20		7	1,400 220	Sedans only
Vans		X		10	X	20		5	1,000	3 current and 2 future vans
Subtotal								93	34,510	
Circulation Factor							150%		51,765	
							130%			
Total Department Vehicle Parking									86,275	
Employee Parking										
All Parking Outside Secured Perimeter ICTC Facility incl SCAG	9		19				1	20	3420	
Admin/Ops	9	X	19		x		1	7	1197	
Road Supervisors	9	Х	19		Х		1	6	1026	
Dispatching	9	Х	19		х		1	18	3078	
Drivers Maintenance	9	X	19 19		x		1	65 15	11115 2565	
Subtotal		^	13		Î			131	22,401	
								101		
Circulation Factor							100%		22,401	
Total Employee Parking									44,802	
Public, Handicapped, and Other Parking										
All Parking Outside Secured Perimeter										
ICTC Meeting Parking	9	х	19		х		1	50	0	6 pm meeting time - use vacated employee and TAC meeting spaces
TAC Meeting Parking	9	х	19		х		1	30	5130	10 am meeting time - dedicated spaces required
Visitor and Public	9	х	19		х		1	6	0	Area includes in ICTC and TAC meeting category
Handicapped	18	х	19		х		1	4	1368	
Bicycle Subtotal		х		5	Х	15	1	1	75 6 572	
Subtotal Circulation Factor				H			100%	91	6,573 6,573	
Total Other Parking									13,146	
					Total	Auto Parkir	ng Spaces	165	57,948	Required auto spaces indicated in
					_		-			green
TOTAL PARKING									144,223	
TOTAL SITE REQUIREMENTS									178,143	

					Pr	ogram				
			Space S	Standard		- 3	Qi	ty.		
Space Name	Unit	Dimen	sions	Gross	s Dime	nsions	Nominal Occupancy	No Required	Area (SF)	Remarks
<u> </u>			IC	TC FACI	LITY I	NCLUDIN	G SCAG			
CTC FACILITY										
Reception Area										
				45		22			222	Public access point; includes waitin
Reception Area		Х		15	х	22		1	330	area for public business
Men's Public Restroom		х		8	х	8		1	64	Handicapped assessable; use also for Commission meeting room
Women's Public Restroom		х		8	x	12		1	96	Handicapped assessable; use also for Commission meeting room
Subtotal									610	
Circulation Factor							25%		153	
Total									763	
off: (6 p.l. (co.o.)										
Offices (See Below for SCAG)										Provides for small conf area inside
Executive Director		х		15	х	20	1	1	300	office
Managers/Planners Support Staff		X		12 10	X	17 12	1	6 5	1,224 600	
Subtotal		^		10	<u> </u>	12		12	2,124	
Expansion Allowance										
Managers/Planners		Х		12	х	17	1	2	408	
Support Staff		Х		10	Х	12	1	4	480	
Subtotal								6	888 0	
Subtotal				1				18	3,012	
Circulation Factor							25%		753	
Total									3,765	
Conference Rooms										
Conference Rooms										Commission members plus plus
Commission Meeting Room		x		30	x	40	60	1	1,200	seating for 50 attendees; configure to be separated into 2 rooms for smaller meetings
SSTAC/TAC Meeting Room		х		1	х				0	Use Commission meeting room
Commission Private Meeting Room		х		12	х	15	8	1	180	For private commission meeting e.g., before public meetings
Table and Chair Storage		х		20	х	4	0	1	80	Directly assessable from Commission Meeting Room
ADA Interview Room		х		10	х	10	3	1	100	Assessable from reception area
Small Conf Room	3	х	6		х		12	1	216	General staff use
Large Staff Conference Rooms	3	х	6		x		24	1	432	General staff use; configure to be separated into 2 rooms for smalle
Subtotal				1					2,208	meetings
Circulation Factor							25%		552	
Total				1					2,760	
Employee Facilities				46		20		4	440	
Kitchen/Breakroom Quiet Room		x		16 8	X	28 12		1	448 96	
Men's Restrooms		x		8	x	8	1	1	64	Handicapped assessable - not normally open to public
Women's Restrooms		х		8	х	8	1	1	64	Handicapped assessable - not normally open to public
Subtotal									672	
Circulation Factor							25%		168	
Total									840	
Common Avos:										
Common Areas Copy/Mail		х		12	х	24		1	288	Incl copier and work table
File/Storage Room		X		6	X	10		6	360	Clarify need for 6 storage areas
Subtotal									648	, ,
Circulation Factor							25%		162	
Total									810	

				Pi	rogram				
		Space	Standard			Q	ty.		
Space Name	Unit Dimer				nsions	Nominal Occupancy	No Required	Area (SF)	Remarks
		I	CTC FACIL	ITY I	NCLUDIN	G SCAG			
Technical Support Spaces									
Electrical Room	X		8	х	10	0	1	80	
I.T./Telecom Room			8	_	12	0	1	96	
Custodial Room with Roof Access	Х		8	Х	12	U	1	96	
Point Room with Roof Access	x		8	х	10	0	1	80	
Fire Riser Room	х		8	Х	10	0	1	80	
Subtotal								336	
Circulation Factor						25%		84	
Total								420	
TOTAL ICTC FACILITY								9,358	
SCAG FACILITY									
Dedicated Spaces									
Managers/Planners	х		12	Х	17	1	1	204	
Support Staff	х		10	Х	12	1	1	120	
Subtotal	х			Х			2	324	
Expansion Allowance	х			Х					
Managers/Planners	х		12	Х	17	1	1	204	
Support Staff	х		10	Х	12	1	1	120	
Subtotal	х			Х			2	324	
Dedicated Storage Area	х		6	х	8	0	1	48	
Subtotal								696	
Circulation Factor						25%		174	
Total								870	
TOTAL SCAG FACILITY								870	
TOTAL BUILDING AREA								10,228	

			Space S	tandard	Pı	ogram	Q	ty.		
			Space S	tanuaru			Nominal	No		
Space Name		_	sions			nsions	Occupancy	Required	Area (SF)	Remarks
	RVICE PRO	VIDE	R ADMINIS	STRATION	I/OPE	RATIONS	BUILDING	AND REV	ENUE CENTE	R
SERVICE PROVIDER ADMIN/OPS										
Administration										
Reception/Waiting Area		х		15	х	20	1	1	300	Public access point; includes waiting
General Manager	-	х		12	х	15	1	1	180	area for public business
IVT Manager		X		10	x	15	1	1	150	
IVT Access Manager		х		10	х	15	1	1	150	
IVT Ride Manager		х		10	х	15	1	1	150	
MedTrans Manager		х		10	х	15	1	1	150	
Safety Manager Spare Office		x		10 10	x	15 15	1	1	150 150	
Maintenance Manager		^		10	^	13		-	130	Located in maintenance building
Subtotal									1,380	
Circulation Factor							25%		345	
Total									1,725	
Road Supervisions (All Modes)										
Road Supervisors Office Subtotal	8	х	10	—	Х		6	1	480 480	Provide offices
Circulation Factor	- 						25%		120	
Total		L			Ħ				600	
Dispatching (All Modes)					П					
Dispatch Manager		х		10	х	12	1	1	120	
Dispatch Office		х		10	х	15	2	1	150	Open to driver's ready room
•			-							drivers receive assignments through
Dispatchers Room Subtotal	5	х	5	ļ	х		17	1	425 695	
Circulation Factor	1				+		25%		174	
Total									869	
Admin Common Areas					F					
Multi-purpose Meeting Room/	4		6		١		25	1	600	Training room for 35 norses
Training Room		х			Х					Training room for 25 persons
Conference Room	3	Х	6		х		8	1	144	Conf room for 8 persons
Breakroom Quiet Room	5	x	5	8	x	12	15 3	1	375 96	Includes sink, fridg, microwave
Mail/Copy		X		10	x	10	2	1	100	
File/Storage Room		Х		10	х	15	1	2	300	
Subtotal							71.25		1,615	
Circulation Factor					-		25%		404	
Total									2,019	
DRIVER FACILITIES										
Driver Facilities (All Modes)										
Driver Ready Room w/ Lockers	5	х	5		х		65	1	1,625	See staffing matrix (green)
Vending Area	3	х	3		х		10	1	90	Off driver ready room
Quiet Room		х		12	х	15	3	1	180	
Exercise Room Men's Restrooms	-	X		15 14	x	20 16	4	1	300 224	Revisit requirement during design Capacity - 4; handicapped assessabl
Women's Restrooms		X		14	X	16	4	1	224	Capacity - 4; handicapped assessab
Subtotal									2,643	, , , , , , , , , , , , , , , , , , , ,
Circulation Factor					П		25%		661	
Total		L			$oldsymbol{\perp}$		<u> </u>	<u> </u>	3,304	
BUILDING SUPPORT SPACES										
Support Spaces										
Electrical Room		х		8	х	10	0	1	80	
I.T./Telecom Room		Х		8	Х	10	0	1	80	
Custodial Room Fire Riser Room	-	X		6	x	8	0	1	48 48	
Subtotal	1	×		U	X	0	Ü	1	256	
Circulation Factor					I		25%		64	
Total						_			320	
TOTAL ADMIN/OPS	1						1		8,836	
,	1	H			Ħ				-,	
REVENUE CENTER					$oldsymbol{\perp}$		<u> </u>			
Revenue Center Building										
Money Counting Room	-	X		10	Х	15	2	1	150	Block construction
Empty Fare Box Storage	-	Х		10	Х	8	0	1	80	Block construction Must be separate from money and
Mech/Elect Room		х		6	х	6	0	1	36	fare box spaces
Armored Truck Pad		х		15	Х	30	0	1	450	
Subtotal						_			716	
Circulation Factor	-	-			+		25%		179	
Total	1				Н				895	
TOTAL REVENUE CENTER		L							895	
TOTAL ADMIN OPS AND					П					
REVENUE CENTER	1								9,731	
UTATIAGE CEIALEU	1				\bot			 		<u> </u>

					Pr	ogram				
			Space S	tandard			Qt	ty.		Remarks
Ou and Name							Nominal	No. Required		Hemarks
Space Name	Unit I	Dimen	sions		Dimer	isions ICE BUILI	Occupancy	Hoquilou	Area (SF)	<u> </u>
MAINTENANCE BUILDING				MAIN		OL DOIL	J.I.G			
Office Areas										
Maintenance Manager		х		10	х	15	1	1	150	
Supervisor Office		х		10	х	10	1	1	100	
Copy/Fax/Supplies/Active Files Manual Library/Computer		x		10 8	x	15 10	2	1	150 80	
Janitor's Room		X		5	X	8	1	1	40	
Subtotal							-	-	520	
Circulation Factor							25%		130	
Total									650	
Employee Facilities										
Break Room/Kitchenette Lockers, Mens	5	X	5	15	X	20	11 14	1	300 350	80% of total mech/utility men
Restrooms, Mens, with Shower		X	3	8	x	12	1	1	96	
Lockers, Womens with Shower	5		5				4	1	100	
Restrooms, Women		Х		8	Х	12	1	1	96	
Separate Unisex Shower with Changing	7	х	10		х		1	0	0	
Area Uniform Drop Off and Storage		х		10	х	12	6	1	120	-
Janitor's Room		X		5	X	8	1	1	40	
Subtotal									452	
Circulation Factor							25%		113	
Total									565	
TOTAL FINISHED AREAS									1,215	
SHOP AREAS										
Repair/Inspection Bays							No. Vehicles	S		
Large Bay (40' Vehicles)		Х		20	х	60	22	2.0	2,400	1 bay per 12 vehicles, rounded up
Large Bay (28' Vehicles)		Х		20	х	60	16	1.0	1,200	1 bay per 20 vehicles, rounded up
Small Bay (26' and 22' Vehicles) Brake Work		X		20	x	45 60	42 0	3.0	2,700 1,200	1 bay per 20 vehicles, rounded up
										With parallelogram lift - could be used
Undercarraige Inspection		Х		20	х	60	0	1	1,200	as repair bay also for total of 7 bays
All-purpose Bay		Х		20	Х	60	0	1	1,200	
Subtotal							80	8.0	9,900	
Circulation Factor Total							15%		1,485 11,385	
Repair Shops									,	
Brake Shop		х		15	х	20	1	1	300	
Tire Shop		Х		20	х	20	1	1	400	
Common Work Area		х		15	х	20	2	2	600	
"Clean" Repair Shop (Electronics, etc.) Subtotal		Х		15	х	15	1	1	225 1,525	
Circulation Factor							20%		305	
Total									1,830	
Shop Floor Storage Areas										
Portable Equip./Lift Storage		х		10	х	20	0	1	200	
Tire Storage (Mounted Tires)		х		10	х	15	0	1	150	
Mechanics Tool Box Storage	6	Х	6		Х	22	8	1	288	Tool boxes and push carts
Records Storage Subtotal		Х		40	х	20	0	1	800 1,438	
Circulation Factor							20%		288	
Total									1,726	
Parts Storage										
Supply/Clerical Clerk		Х		8	х	8	1	1	64	
Parts Storage		X		20	X	30	2	1	600	
Secure Tool Storage Subtotal		Х		10	Х	10	1	1	100 764	-
Circulation Factor							20%		153	
Total									917	
Support Areas										
Lubrication/Compressor Rm		х		20	х	20	0	1	400	
Shop Floor Rest Room		Х		6	Х	8	1	1	48	
I.T./Telecom Room Electrical Room		x		10 10	x	12 15	0	1	120 150	
Fire Riser Room		X		8	X	10	0	1	80	
Subtotal									798	
Circulation Factor							25%		200	
									000	ii .
Total		H			┢┤				998	
									16,855	

					Pr	ogram				
			Space S	Standard			Q	ty.		1
Cross Name	11-14-5	.	-1	0	Di		Nominal Occupancy	No Required		Domonico
Space Name	Unit L	Dimen	sions	I		nsions		oquou	Area (SF)	Remarks
				FU	EL A	ND WASH				
FUEL AREA										
Fuel Building Offices										
Service Office		х		10	х	10	1	1	100	
Service Worker Break Area		х		10	Х	12	1	1	120	
Supply Storage Area		Х		10	Х	10	1	1	100	
Lube/Compressor Room				10	Х	15	0	1	150	
Unisex Restroom				6	Х	8	1	1	48	
Electrical/Server Room		х		8	Х	10	1	1	80	
Subtotal							350/		598 150	
Circulation Factor Total					+		25%		748	
Total									740	
Fuel Lanes										
Diesel Fueling Lane (Right Side Fill)		х		12	х	55	0	1	660	12' lane adjacent to 8' island
Gasoline Fueling Lane (Left Side Fill)		х		12	х	45	0	1	540	12' lane adjacent to 8' island
Dispenser Island		х		8	х	40	2	1	320	
Diesel Storage Tank Area		х		20	Х	45	0	1	900	
Gasoline Storage Tank Area		х		15	Х	25	0	1	375	
Tanker Delivery Pad		х		25	Х	60	1	1	1,500	
		х			Х				0	
Subtotal									4,295	
Circulation Factor							50%		2,148	
Total									6,443	
TOTAL FUEL AREA									7.400	
TOTAL FUEL AREA					-				7,190	
WASH AREA				1			<u> </u>			
Bays and Equipment Rooms										Constitution of the constitution of
Automated Washer Bay		х		25	х	65	1	1	1,625	Specified to wash transit buses and cut aways
Chassis Wash Bay		х		25	Х	65	1	1	1,625	
Wash Equipment Room, Common		х		15	Х	40	2	1	600	
Subtotal							200/		3,850	
Circulation Factor Total							20%		770 4,620	
Total									4,620	
TOTAL WASH BUILDING									4,620	
TOTAL BUILDING AREA									11,810	
APPROACH, WEAVE, AND RUNOUT AREAS										
Approach to Fuel Area	50	х	75		х		1	1	3,750	
Weave Between Fuel and Wash	50	х	80	<u> </u>	х		1	1	4,000	
Runout from Wash Building	50	х	75		х		1	1	3,750	
Subtotal									11,500	
Circulation Factor							100%		11,500	
Total	_		_			<u> </u>			23,000	
							ļ			
TOTAL PAVED AREAS									23,000	
TOTAL FUEL, WASH, AND PAVED					H					
AREAS									34,810	

ICTC MAINTENANCE AND OPERATIONS FACILITY STUDY STAFFING MATRIX AND PARKING

Staff Position	Current All Staff	Current "On-site" Staff	Estimated Expansion Staff	Estimated Expansion Staff "On- site"	Total "On- site" Including Expansion	Parking Requirements	Remarks
ICTC Staff, Total	10	10	6	6	16	16	Per David's email - 10 ICTC, 2 SCAG, 6 expansion
SCAG Staff	2	2	2	2	4	4	1
GM	1	1	0	0	1	1	
IVT Manager	1	1	0	0	1	1	
IVT Access Manager	1	1	0	0	1	1	
IVT Ride Manager	1	1	0	0	1	1	
MedTrans Manager	1	1	0	0	1	1	
Safety Manager	1	1	0	0	1	1	
Maintenance Manager	1	1	0	0	1	1	
Road Supervisors	5	5	1	1	6	6	
Office Clerk	1	1	0	0	1	1	
Dispatch Manager	1	1	0	0	1	1	
Dispatchers, IVT	6	4	1	1	5	5	
Dispatchers, Access	3						
Dispatchers, RIDE	4	10	2	2	12	12	Confirmed by FT 8/7/2017
Dispatchers, MedTrans	2	10	2	2	12	12	
Dispatchers, Any Service	3						
Mechanics	6	6	2	2	8	8	
Utility	4	4	2	2	6	6	
IVT Drivers	29	20	7	5	25	25	From FT 8/7/2017
IVT Access	12	9	5	5	14	14	From FT 8/7/2017
IVT Ride	16	14	5	5	19	19	From FT 8/7/2017
IVT MedTrans	3	2	5	5	7	7	From FT 8/7/2017
Totals	114	95	38	36	131	131	

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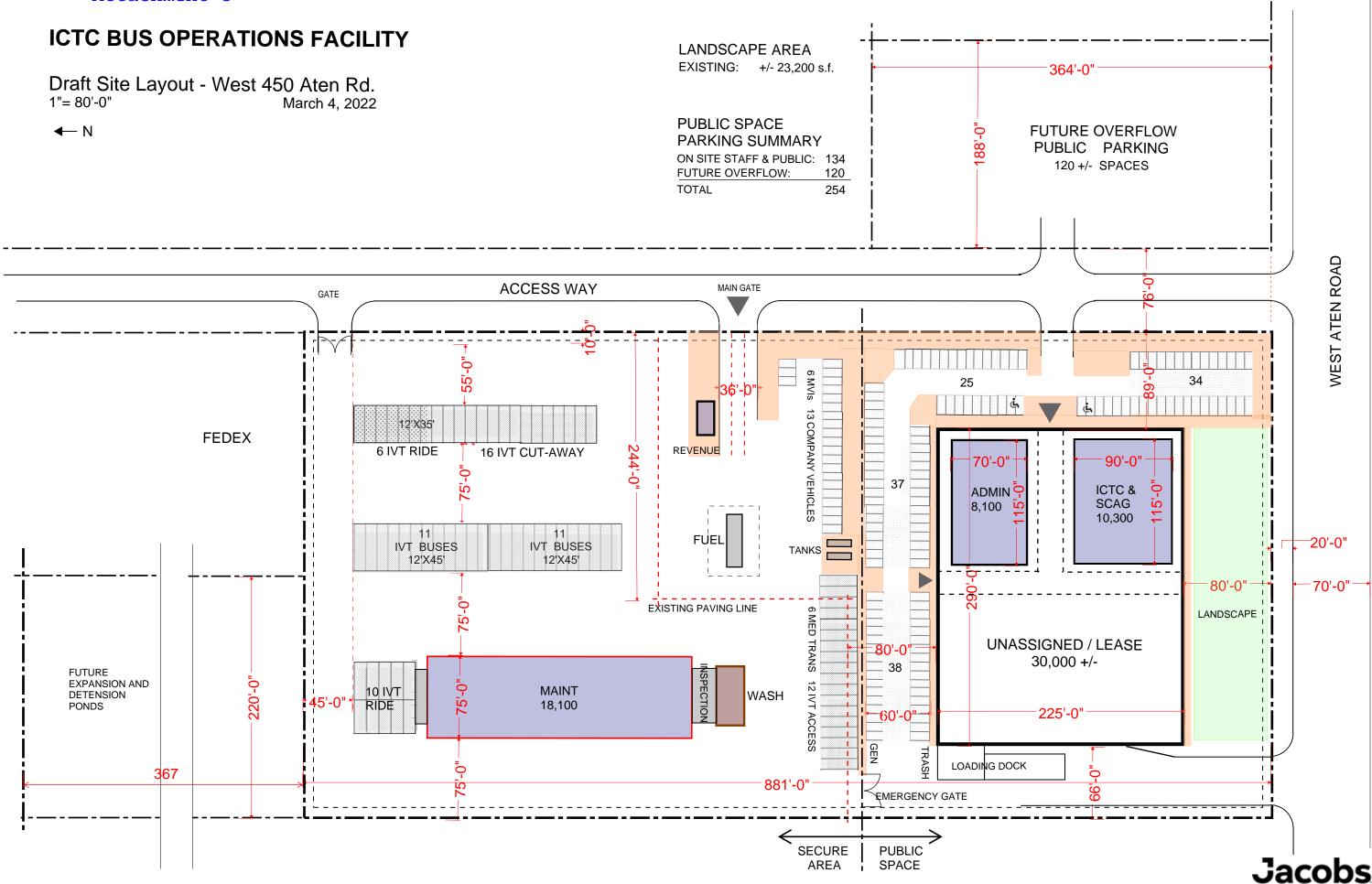
ICTC Facility Admin/Ops Road Supervisors Dispatching Drivers Mai	ntenance
16	
4	
1	
1	
1	
1	
1	
1	1
6	ı
1	
1	
5	
12	
12	
	8
	6
25	
14	
19	
20 7 6 18 65	15 131

Revised on 02/08/2022

83.3%

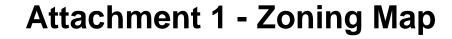
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Attachment CITY OF IMPERIAL RR RESIDENTIAL RURAL C-1 COMMERCIAL NEIGHBORHOOD **ZONING MAP**







Attachment 5

ICTC B	us Ope	rations Fa	cility Improvement at W. Aten Roa	d	
		FNVIRONM	IENTAL CLEANUP (Allowances)		
Name	Unit	Quantity (LS)	Description	Unit Price	Cost Estimate
Soil Remediation	LS		USTs, LIFT, etc.	100,000.00	100,000.00
Hazardous Building Material Removal	LS	1	Removal and disposal of ACM, LBP, and other hazardous	150,000.00	150,000.00
Total					250,000.00
		RIIIDI	NG (Upgrade Allowances)		
Name	Unit	Quantity	Description	Unit Price/ft2	Cost Estimate
Building	Onic	Quantity	Existing Office upgrade	Ollie i rice/itz	cost Estimate
Assume half of the building for demo)	SQFT	32,625	Demo of existing interiors	5.00	163,125.00
,	SQFT		Admin Area General Office partititons and dropped ceilings	200.00	1,620,000.00
	SQFT	9,400	ICTC Area General Office partititons and dropped ceilings	200.00	1,880,000.00
	SQFT	900	SCAG Area General Office partititons and dropped ceilings	200.00	180,000.00
	LS		Common Toilet rooms for all Admin	50,000.00	50,000.00
	LF		Temporary partion beteen Program area and Unassigned area s	300.00	67,500.00
	SQFT	,	Circulation and common areas	75.00	690,000.00
Duilding Cub Total	SQFT		Unassigned/Lease area	2.00	75,300.00
Building Sub-Total Bus Facility		98,101	New Facility		4,725,925.00
ous ruenity	SQFT	18 100	Maintenance shop/office	380.00	6,878,000.00
	SQFT		Inspection	300.00	900,000.00
	SQFT	,	Fuel station	1200	756,000.00
	SQFT		Wash station	200	920,000.00
Optional covered storage)	SQFT	30,000	Canopy covered storage - All Fleet Vehicles	120	3,600,000.00
			Above ground fuel storage tank (10,000 gal gasoline and 1500		
	SQFT		gal diesel)	120	108,000.00
	LS		Revenue Center	50000	50,000.00
Maintenance. Sub-Total		57,231			13,212,000.00
Building and Maintenance Total		155,332			17,937,925.00
Building and Maintenance Total		155,552			17,937,925.00
		ON-SITE	(Improvement Allowances)		
Name	Unit	Quantity	Description	Unit Price	Cost Estimate
	SQFT		Demo existing asphalt - Fleet Secure Area	3.5	154,000.00
Pavement	SQFT		Concrete pavement - Fleet Secure Area	5.5	1,144,000.00
andscape - Upgrades	SQFT		Existing along W. Aten Rd. Frontage (290x80)	5	116,000.00
andscape - New	SQFT	9,000	New planting along East side of Access Way (450x20) New hardscape and planting along interior Security Fence	15	135,000.00
andscape - New	SQFT	8,200	(410x20)	30	246,000.00
Minor Concrete (Driveway & Sidewalk)	SQFT	5 200	Access Way Entries for Fleet 2 @ 2600 Sq Ft	8	41,600.00
Site Sub-Total		297,600			1,836,600.00
Concrete drive demo with concrete curb			Remove existing driveway at West Aten, south of Access Way		
nstallation	LF	30	intersection and install new curb and gutter	40	1,200.00
ence at Bus Maintenac area	LF	2,610	Fence and gates around secure area - 4 sides	250	652,500.00
			Gate Assemblies, tracks, motors, controllers, safety devisces,		
/ehicle and pedestrian gates	LS	1	security 3 vehiclular, 2 pedestrian	100000	100,000.00
. 5		_			.,
Curb and Gutter	LF	680	Along Access Way project side only - Double if for both sides	30	20,400.00
		<u> </u>			
Fence, Curb & Gutter Sub-Total	LF	3,291			774,100.00
Parcel 3 Overflow Parking Area	SF	80,740	Class 2 aggregate base	3	242,220.00
Fencing	LF	954	Fencing 3 sides	90	85,860.00
Parcel 2 Future Expansioni			Class 2 aggregate base	3	205,296.00
Fencing			Fencing 4 sides plus 1 vehicle gate and 1 ped gate	90	133,200.00
Expansions Sites Sub-Total		,,,,,,			666,576.00
•					,
Detention Basin	LS		Allowance	100000	100,000.00
torm Drain System	LS		Allowance	100000	100,000.00
Utility (electricity, water, gas)	LS	1	Allowance	200000	200,000.00
Allowance Sub-Total					400,000.00
Subtotal					\$21,865,201
Contingency	20%				\$4,373,040
Total	2070				\$26,238,241
					Ÿ20,230,241
Notes:					
Access Way widening is not included.					
2. Traffic signalization at Access Way and W. Ate	n Road inter	section is not include	ded.		
3. The following costs are not included:					
Start-Up Costs					
Owner Furnished items	-				
Permanent Utility Consumption Charges					
Temporary Utility Consumption Charges					
Unforseen subsurface and/or existing condi	tions				
Owner's Contingency 1. Optional improvements may be removed.					
		Î.	I .	1	

Attachment 6

	Months	1 2	3 4	4 5	6 7	8 9	10 1	1 12	13	14 1	5 16	17	18	19	20 2	21 2	2 2	3 24	1 25	26	27	28	29	30 3	1 32	4 33	34	35 3	36 3	7
																														T
Review and Accept Aten Test Fit Site Layout																														
a. Confirm intent to Purchase Airport Parcels																														
b. Submit Purchase Offer to Airport Authority																														
c. Negotiate and Complete Purchase																														T
		Con	cept	15%																										
Conceptual Facility Plan based upon the Test Fit	3				De	sign	Docun	nent	s to 1	00%							_		1							<u> </u>	\sqcup			_
Develop Construction Document Package	12		Ш									Bic	t												\perp	\perp	Ш			
Advertise, Bid, Award	3															C	onst	ructi	ion											
Construction Phase	14																													
Facility Test, Acceptance	2					П																					Con	nmiss	ioni	ng
Move Maintenance, Operations, Administration	3																												N	lov
																														T
NOTES:																														Ī
1. Construction phase could be broken into two com	ponents																													
a. Office Areas																														1
b. Mainenance & yard																														1
2. Bidding assumes andvertisement, Bid, Award, NTF																														T
3. As design develops schedule could be changed			П			\top																				T				T