

# BOARD OF SUPERVISORS AGENDA ITEM REPORT CONTRACTS / AWARDS / GRANTS

CAward Contract CGrant

Requested Board Meeting Date: 07/02/19

\* = Mandatory, information must be provided

or Procurement Director Award  $\Box$ 

# \*Contractor/Vendor Name/Grantor (DBA):

Burns Wald-Hopkins Shambach Architects, Inc.

# \*Project Title/Description:

Architectural and Engineering Design Services: Southeast Library (XSELIB)

# \*Purpose:

Amendment: Contract No. CT-FM-18-090. This amendment modifies the scope of work and increases the contract amount by \$9,709.00 for a cumulative not-to-exceed amount of \$327,226.00. Administering Department: Facilities Management.

This amendment incorporates audiovisual design services into the contract.

# \*Procurement Method:

Pursuant to Solicitation for Qualifications No. 264262, on 10/17/17 the Board of Supervisors awarded a contract for this project in the amount of \$317,517.00 for a contract term of 10/17/17 to 12/31/19.

Attachment: Amendment No. One (1)

# \*Program Goals/Predicted Outcomes:

Design and construct a new 9,000 square foot library, with associated site improvements, on Mary Ann Cleveland Way.

# \*Public Benefit:

Provide the Vail community with a full service branch library. The Vail region was identified in 2006 as under served due to rapid growth in southeastern Pima County.

# \*Metrics Available to Measure Performance:

The project remains within budget and construction is completed by the Fall of 2020.

# \*Retroactive:

No.

To: CoB- 4-18-19 Ver. - 4 pgs- 27 Revised 5/2018

Contract / Award Information	
Document Type: Department Code:	Contract Number (i.e.,15-123):
Effective Date: Termination Date:	Prior Contract Number (Synergen/CMS):
Expense Amount: \$*	Revenue Amount: \$
*Funding Source(s) required:	
Funding from General Fund? CYes CNo If Yes	\$%
Contract is fully or partially funded with Federal Funds?	Yes No
If Yes, is the Contract to a vendor or subrecipient? _	
Were insurance or indemnity clauses modified?	Yes No
If Yes, attach Risk's approval.	
Vendor is using a Social Security Number?	Yes No
If Yes, attach the required form per Administrative Procedu	re 22-73.
Amendment / Revised Award Information	
Document Type: CT Department Code: FM	Contract Number (i.e., 15-123): 18-090
Amendment No.: One (1)	AMS Version No.: Four (4)
Effective Date: 07/02/19	New Termination Date:
	Prior Contract No. (Synergen/CMS):
	Amount This Amendment: \$ 9,709.00
Is there revenue included? CYes ( No	If Yes \$
*Funding Source(s) required: +M-Capital Projects Non-Bon	
Funding Source(s) required: FM-Capital Projects Non-Bond Funding from General Fund? (Yes (No	lf Yes \$ %
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PIMA COUNTY FA	ACILITIES MANAGEMENT DE	PARTMENT						
PROJECT:	Architectural and Engineering Design Services: Southeast Library (XSELIB)							
CONSULTANT:	Burns Wald-Hopkins Shamb 261 N. Court Avenue Tucson, Arizona 85701	ach Architects, Inc.		,				
CONTRACT NO .:	CT-FM-18-090							
AMENDMENT NO	.: One (1)							
FUNDING:	FM-Capital Projects Non-Bo	nd						
CONTRACT TERM	I: 10/17/17 - 12/31/19	ORIGINAL CONTRACT AMOUNT:	\$	317,517.00				
TERMINATION PR	RIOR AMENDMENT: n/a	PRIOR AMENDMENT(S):	\$	-				
TERMINATION TH	IIS AMENDMENT: 12/31/19	AMOUNT THIS AMENDMENT:	\$	9,709.00				
		REVISED CONTRACT AMOUNT:	\$	327,226,00				

# CONTRACT AMENDMENT

WHEREAS, COUNTY and CONSULTANT have entered into the Contract referenced above; and

WHEREAS, additional design services are required to incorporate the addition of audiovisual design; and

WHEREAS, remaining balance of \$7,649.00 in design contingency will be applied to additional design services; and

WHEREAS, COUNTY and CONSULTANT agree to modify the Contract to add additional funds for the additional services, pursuant to Article 4 – Compensation and Payment.

NOW, THEREFORE, it is agreed as follows:

- CHANGE: ARTICLE 4 COMPENSATION AND PAYMENT, second paragraph as follows:
  - FROM: "CONSULTANT's total CPFF will be allocated among the major tasks contemplated by this Contract in such manner that each major deliverable will have associated with it a not-to-exceed cost, plus a fixed fee amount, incorporated herein as EXHIBIT "B" COMPENSATION SCHEDULE (31 pages)."
  - TO: "CONSULTANT's total CPFF will be allocated among the major tasks contemplated by this Contract in such manner that each major deliverable will have associated with it a not-to-exceed cost, plus a fixed fee amount, incorporated herein as EXHIBIT "B" – COMPENSATION SCHEDULE (31 pages), and EXHIBIT "B-1" – ADDITIONAL SERVICES (25 pages)."
- CHANGE: <u>ARTICLE 4 COMPENSATION AND PAYMENT</u>, fourth paragraph as follows:
  - FROM: "The total of all payments to CONSULTANT for services provided under this Contract will not exceed Three Hundred Seventeen Thousand Five Hundred Seventeen Dollars and Zero Cents (\$317,517.00)."
  - TO: "The total of all payments to CONSULTANT for services provided under this Contract will not exceed Three Hundred Twenty Seven Thousand Two Hundred Twenty Six Dollars and Zero Cents (\$327,226.00)."

### ATTACH: EXHIBIT "B-1" - ADDITIONAL SERVICES (25 pages)

This Amendment shall be effective on July 2, 2019.

All other provisions of the Contract, not specifically changed by this Amendment, shall remain in effect and be binding upon the Parties.

IN WITNESS WHEREOF, the Parties have affixed their signatures to this Amendment on the dates written below.

COUNTY:

CONSULTANT:

Chairman, Board of Supervisors

hamball

Signature

BOBIN SAMUBACH PRINCIPAL

Date

ATTEST:

6/18/2019 Date

Clerk of the Board

PROVED AS TO FORM:

Deputy County Attorney

**CHRISTOPHER STRAUB** 

Name (Please Print)

6-13-2019

Date

# bws ARCHITECTS

June 11, 2019

Pima County Facilities Management New Building Services 150 W. Congress St., 3<sup>rd</sup> Floor Tucson, Arizona 85701

Attn: Ken Imoehl, R.A., LEED AP

Re: Architectural and Engineering Design Services Southeast Branch Library Audio Visual Consulting Additional Services No 003 -Pima County Contract No. CT-FM-18\*090. BWS Project Number 1715.000 2.1

Dear Ken:

Per your request, we are submitting this proposal for audiovisual services. We understand this will be deducted from the Design Fee Contingency; however, the amount does exceed the available contingency as indicated below.

Per your previous comments the proposed consultant has reduced the scope except for the intermediate construction visit. The Sextant Group typically completes this site walk to verify infrastructure such as conduit path and backbox locations prior to the GC closing up walls with sheetrock. It is a good practice that mitigates a fair amount of risk in the construction process, it tends to save change orders from electrical contractors or GC's should they miss something that was specified. We recommend including this site visit.

The Sextant Group proposal also included \$700 in reimbursable expenses, but it appears that can be covered by the reimbursable line item already included in the project.

Please see the attached detailed fee development information.

Additional Compensation: A Fixed Fee of \$17,358 per the attached Fee Summary which includes a design contingency of \$5,000.

Design Contingency needed	-\$9,709
Additional Service No 003	\$17,358
Additional Service No 002:	\$10,047
Additional Service No 001:	\$ 7,304
Design Fee Contingency:	\$25,000

Ken, we are looking forward to completing new Southeast Library. Please let us know if you have questions or concerns.

BURNS WALD-HOPKINS SHAMBACH ARCHITECTS

261 North Court Avenue Tucson, Arizona 85701 Tel: 520.795.2705 Fax: 520.795.6171 WWW.BWSARCHITECTS.COM Sincerely, BWS Architects

Pain Bunkach

Robin Shambach AIA LEED AP Principal

June 11, 20109 Pima County Southeast Library FEE SUMMARY

# Additional Service No 003

BWS Architects	\$2,558
Consultants	
KC MECH	\$0
MEI Electrical/IT Special Systems	\$0
Grenier Structural	\$0
Grenier (Civil)	\$0
McGann (Landscpe)	\$0
Compusult Estimating (DD Rev and 30% CD)	\$0
Sextant Group	\$9,800
Subtotal Consultants Fee	\$9,800
Total Services	\$12,358
Design Contingency Increase	\$5,000
Total Increase	\$17,358

Date: Project BWS Architects	06/11 Sout	1/19 heast Libra	ry Additiona	I S	ervice	No 00	3							
ITEM	F	Principal	Project Designer		Proje Archi	ect tect	Spe	cifier/Es mator	sti	A	rchitectural Designer	Ad	min/Cerical	TOTALS
Hourly Rate		51	51 35		34		22			25				
Meetings		6	0		6			0			0		0	12
Project Management		4	0		0			0			0		0	4
Coordination		0	0		6			0			0		0	6
Record Drawings		0	0		0			0			0		0	0
Total Hours		10	0		12			0			0		0	22
LABOR EXTENSION	\$	510	\$	-	\$	420	\$		-	\$	-	\$	-	\$ 930
Overhead 1 + 1.50	\$	765.00	<b>\$</b> -		\$6	30.00	\$	-		\$	-	\$		\$ 1,395.0
SUB-TOTAL LABOR	\$	1,275.0	\$	-	<b>\$</b> 1.	.050.0	\$		-	\$	-	\$		\$ 2,325.00
PROFIT @ 10%	\$	127.50	\$ -		<b>\$</b> 1	05.00	\$			\$	•	\$		\$ 233
TOTAL	\$	1,403	\$		\$	1,155	\$			\$		\$		\$ 2,558



June 10, 2019

Ms. Robin Shambach Managing Principal BWS Architects 251 N. Court Ave Tucson, AZ 85701

Re: Pima County SE Library Proposal for Audiovisual Consulting Services. s190249. (Revision 2)

Dear Robin,

Thank you for inviting The Sextant Group to submit this proposal for audiovisual consultation services for the SE Library for Pima County.

The Sextant Group approaches Library spaces with forward thinking and an intrinsic understanding of how technology is increasingly impacting the nature of spaces within buildings themselves, and how these various spaces are designed. Emerging technologies and blended online learning not only impact how we interact with others but are also changing users' expectations of the spaces themselves.

This proposal is based on documents we received dated May 14, 2019. Having reviewed the Audiovisual plan markups referenced in your request, we have an excellent insight into this project and our proposal will reflect all stated needs without exception.

We are sensitive to the aesthetic considerations of the project; particular attention will be given to the careful and thoughtful integration of the equipment with the architecture.

Pima County is committed to making improvements utilizing newer technologies that will enable the Library to expand its growing technology requirements. Specifically, the project will include the following spaces:

- Study Rooms (3)
- Staff Conference Room
- Multi-Purpose Room

We propose design and consultation services for the following:

 Audiovisual Systems, including audio, video, display, conferencing, collaboration, presentation, control and related systems such as Digital Signage. Our scope of work includes all aforementioned, relevant spaces and systems in the facility.

As proposed, our services include Planning and Programming, Schematic Design, Design Development, Construction Documents, Technology Systems Design and Specification and Construction Administration.

# PROCESS: AUDIOVISUAL SYSTEMS

<u>Technical Discovery</u>This is an abbreviated Planning and Programming Session to catch up with the project now in CD Phase.

- 1. Review existing documentation submitted by the Owner describing current audiovisual systems, standards, preferences and future plans.
- Meet with the Owner and Architect to ascertain the functional, aesthetic, sustainability and budgetary requirements and aspirations of the Audiovisual Systems.
- Submit a final Audiovisual Program based on information provided at the meeting. The final document, upon acceptance by the Owner, will be used as a guideline for planning and design efforts as the project progresses.

THE SEXTANT GROUP INC. TECHNOLOGY CONSULTANTS 7702 E DOUBLETREE RANCH RD SUITE 300 SCOTTSDALE AZ 85258 480.831 8580 www.TheSextantGroup.com

# PHOENIX

Pima County SE Library Proposal for Audiovisual Consulting Services. s190249 June 10, 2019

# 4. Submit a high level OPC (Opinion of Probable Cost)

# Infrastructure Design (Construction Documents)

- Assist the Architect in the development of sightlines, room geometries, floor plans, seating plans, equipment locations, adjacencies, and ceiling heights to enable optimal use of the audiovisual systems.
- 2. Submit to the Architect, for coordination with appropriate members of the Design Team, guidelines for the following elements as related to the audiovisual systems: AC power, HVAC, vibration and structural needs, lighting performance, dimming, dimming control, window treatments, equipment security, telecommunications, and specialty furnishings. Our input for these elements as related to audiovisual systems will be options to consider, not final designs or specifications.
- 3. Submit to the Architect, or contribute to the Revit model, for inclusion into the Construction Documents package, model elements and detailed drawings illustrating infrastructure required to support the Audiovisual Program. The drawing set will be comprised of floor plans, ceiling plans, select elevations, riser diagrams and associated details as needed. Illustrated will be elements typically provided by the General Contractor and/or Electrical Contractor, such as cable pathways, conduit destinations and sizes, back boxes, floor boxes, power locations, equipment locations, blocking, backing, projection screens, architectural integration details and other information as needed to convey the design intent.
- 4. Submit to the Architect, for inclusion into the Project Specifications for the base building bid, CSI-format specifications for facilities-related audiovisual components. These specifications will include items that are typically provided by the General Contractor and/or Electrical Contractor such as projection screens and projector lifts. *Note:* this phase does *not* include specification of complete audiovisual systems.

# Systems Design and Bidding

- Update the Opinion of Probable Cost for the installed audiovisual systems at 100% Construction Documents. This will take the High Level OPC provided previously and detail products and quantity based on systems design.
- Once the Owner has approved the Audiovisual Systems budget, submit to the Architect and Owner, for release to specialty audiovisual contractors, competitive bidding documents for the audiovisual systems. The documents will include:
  - General bidding terms and conditions as needed
  - Narrative system descriptions
  - Functional block diagrams showing major audiovisual components indicating signal flow and equipment interconnectivity
  - Connection points to related systems such as data networks, lighting dimming systems, or other systems as needed
  - Control software descriptions
  - Detailed equipment lists with specific manufacturers, makes and models numbers for all of the major components necessary for the successful implementation of the systems design
  - Specification detailing the technical performance, installation, warranty coverage, training, documentation and project close-out procedures. *Note:* All information will be of sufficient detail as to allow the Owner or Architect to solicit competitive bids from specialty contractors. Duplication, advertising, distribution, receipt, award and other administrative tasks related to the bid packages are provided by others.
- 3. Meet with the Owner via web conference to review the audiovisual systems design documentation.



- 4. Generate one set of updates to the audiovisual systems design documentation, based on Owner feedback. Submit final bid specification package, to be released either as a stand-alone package or as an attachment to procurement administration documents, such as CSI Division 00 / 01 or a standard Terms & Conditions document, prepared by the Architect, Owner or others.
- 5. Provide a list of qualified audiovisual bidders, if needed.
- 6. Provide answers to technical questions from bidders during the bidding process.
- 7. Review bid responses for compliance to design and specification.
- 8. Submit bid analysis and bid award recommendation.

# Construction Administration

- 1. Respond to relevant RFIs, Shop Drawings and other project submittals for compliance with design documentation, as related to our design scope and responsibilities.
- Observe and report on the General Contractor's and Electrical Contractor's work-in-progress, on-site, as related to our design scope and responsibilities.
- Meet with the Audiovisual Contractor and Owner via web conference to review Shop Drawings submitted by the Audiovisual Contractor. Review functional capabilities and characteristics of the system for compliance with Owner requirements.
- Observe and report on the completed audiovisual systems and final documentation. Submit Punch List Report detailing results.

Phase	Qty.	Location	Meeting Purpose
Programming	1	Site	Project Kick-off; Consultant Coordination meeting - User interviews to ascertain functional requirements; tour relevant facilities
SD / DD / CD	2	Archt. Office	Technology drawing coordination
CA	1	Telephone/ Web Conference	95% review of Audiovisual system designs and specifications
CA	1	Telephone/ Web Conference	Review of Audiovisual submittals with the Audiovisual Contractor and Owner prior to approval
CA	1	Site	Pre-sheetrock Infrastructure Inspection
CA	1 <sup>.</sup>	Site	Final Technology System Punch Listing
CA	5	Telephone/Web Conference	Various Project Coordination and Communication Calls/Meetings
TOTAL:	12		

\* Note: meetings listed as "Archt. Office" are planned for the Phoenix office.



Pima County SE Library Proposal for Audiovisual Consulting Services. s190249 June 10, 2019

# SCOPE OF WORK ASSUMPTIONS

This scope of work is based on the following assumptions:

- a) We will adhere to the Owner standards and preferences as applicable.
- b) SCHEDULE AND BUDGET:
  - We expect to receive relevant evit models a minimum of ten working days prior to the due date of our initial deliverable and three working days prior to due dates of subsequent deliverables. Our infrastructure drawings will be submitted for incorporation into the final Construction Document set by the Architect or others.
  - Our Construction Administration services assume that construction will not be phased, with a single opening date planned.
  - We expect the budget for installed Audiovisual Systems to be inclusive of the aforementioned spaces. Any significant increase of project footprint may result in a request for additional fees.
  - In the event that the project is placed on hold for a period longer than six months we may
    request a remobilization fee upon the restart of the project.
  - Unless otherwise stated, our engagement concludes ten working days after issuance of our punch list report(s).

# c) REVIT DELIVERABLES:

- We anticipate delivering official drawing submissions a total of four occasions. These are anticipated to be preliminary CD, CD final set for review, CD bid set and CD conformed set for construction, or similar milestones as determined by the Architect. These will be delivered in PDF and Revit format. In addition, we anticipate updating the Revit model every two weeks during the Construction Document phase for team coordination purposes.
- Use of a cloud-based Revit collaboration tool (e.g., BIM 360 Team/Collaboration for Revit or "C4R") is not included but is available for an additional fee; fee will be determined by the project team requirements.
- Our Revit families are developed to a level of LOD 200, with select items to LOD 300, as defined in AIA E202 but are not of render quality. Expected contributions to the technology infrastructure drawings are items such as floor penetrations, floor boxes, technology junction boxes, security cameras, access card readers, emergency phones, conduits 2" diameter or larger, cable trays and baskets. Coordination of these infrastructure elements with technology components are shown in detail drawings and elevations where relevant.
- For the purposes of coordination with other trades and to facilitate clash detection by the Architect, our Revit contributions will also include architecturally significant elements such as projectors, optical beam paths, projector lifts, flat panel displays, lecterns or presenter workstations, video camera sightlines and locations, large loudspeaker arrays, and equipment racks as needed.
- Items not illustrated in the Revit model include conduit below 2" diameter, mounting hardware, bracing, fire-stopping, cabling and other items that do not influence the architecture or other Design Team contributions. These items may be illustrated in detail drawings and elevations or addressed in the specifications as needed.
- Select elements may be represented in the Revit model during design to facilitate coordination with the Design Team but removed from the final construction documents to help clarify the scope of specialty technology contractors.
- d) All deliverables will be submitted electronically. Our drawings, specifications, reports and other submittals are considered to be "Instruments of Service" as defined by the AIA (American Institute of Architects) contractual documents for use solely and exclusively for this project.



- All technology bid packages will be of sufficient detail to allow competitive bidding from specialty contractors. The Owner or others will duplicate, distribute, award and otherwise administrate all bids.
- f) During Construction Administration, we anticipate no more than two reviews per submittal type of Shop Drawings, product data, cut sheet packages, DSP signal flows, control system surfaces, test results and other documentation as submitted by the various Contractors.
- g) Our reports, program documents and audiovisual specifications will be submitted in PDF format intended to be used as stand-alone documents or as attachments/appendices to documents prepared by the Architect, Owner or others.
- h) The following services are *excluded* from our base scope of work. Many of these design elements are available as additional services.
  - Related to our Audiovisual Systems scope of work: Paging, Sound Masking, IPTV/TV Reception/Distribution head-end, AR/VR/XR Production and Playback Systems, Audiovisual Control System Software Development
  - Acoustic, including: 3D Acoustical Modeling, Specialty Vibration Control, Structural and Ground-Borne Vibration Reduction, Environmental Noise Control, Noise Ordinance Compliance, Construction Noise Control, Electronic Variable Acoustic Systems, product specifications
  - IT/Structured Cabling including: Telecom Outside Plant, Voice/Data System electronics, Data Center design, Distributed Antenna System (DAS), Cellular Distributed Antenna System (DAS), building-wide Li-Fi systems, building-wide PoE Lighting Systems, Telecommunications Transition plan, Master Clocks/Bell Systems, Specialty Networks not on the building LAN
  - Building Security including: dedicated/staffed security monitoring center or room, Doors/Door Hardware, Area of Refuge, Gunshot Detection System
  - Technical Lighting Systems including: Daylight Studies, Window Treatments, Architectural Lighting
  - Library-specific technologies such as Automatic Retrieval/Automatic Storage systems, RFID book/asset "checkout" systems, digitization stations, specialized databases, library administrative software and so on
  - General: Technical Millwork construction details, creation of full "cut-sheet" packages, processing of vendor payment applications, cable ID/labeling on drawings, record drawings or as-built drawings, code compliance, demolition plans, swing space, pilot test spaces, tours of off-site facilities, PE/AIA stamping, LEED certification information, post-occupancy services
- If additional services are required, we will offer those services under a separate fixed fee proposal, or on a time and materials basis, based on rates current at the time of the assignment.
- j) We reserve the right to withdraw this proposal after 90 days.





# Proposal Fee Breakdown

	Fee Totals
Construction Documents	\$ 3,750
AV Systems Design	\$ 2,150
Construction Administration	\$ 3,900
Labor Total	\$ 9,800
Estimated Expenses	\$ 700
Total	\$ 10,500

ATLANTA BOSTON COLUMBUS DENVER LOS ANGELES NEW YORK OMAHA PHOENIX PITTSBURGH RALEIGH WASHINGTON DC

The scope of work and fees are proposed as a complete project. Fees are broken out above for convenience and administrative purposes only. If a subset of the disciplines and/or phases are accepted, the above fees may require a negotiated adjustment.

Payment terms are Net 30 days or per terms of the prime agreement. Typical expenses are included above.

If this is acceptable, please have an officer of the firm sign and date this proposal or submit an AIA contract or similar contract instrument with this document as an attachment.

Please address contract documents to:

Mr. Patrick M. Padovan, Vice President The Sextant Group, Inc. 700 Waterfront Drive, Suite 200 Pittsburgh, PA 15222 <u>ppadovan@TheSextantGroup.com</u> / 412.323.8580 x111

If you wish to discuss this further, please contact me at 412.323.8580 x108 or jcook@TheSextantGroup.com.

Thank you for your consideration, Robin. We look forward to a highly successful project together.

Sincerely, THE SEXTANT GROUP, INC

John A. Cook Vice President

Accepted by:

Print name

Date

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CR CARD READER. CFCI, PC TO PROVIDE CUT SMEET

TV TV LOCATIONS, SEE ADDITIONAL INFO BELOW

TC TIME CLOCK. OFOI, GC TO INSTALL DATA CABLE.

AL ALARM MAIN PANEL. GC TO INSTALL POWER & DATA. OFOI PANEL.

STUDY ROOMS: 42" TV W/ WIRELESS ADAPTER, WALL INPUTS FOR HDMI, USB, VGA, POWER/VOLUME/SOURCE INTERFACE PLATE.

STAFF CONFERENCE: 55" TV W WIRELESS ADAPTER, WALL INPUTS FOR HDMI, USB, VGA, POWERVOLUME/ SOURCE INTERFACE PLATE, PROVIDE WEB CAMERA.

WED GAMERAC JUJE (BURPOSE RM: 86" TV W/ WRELESS ADAPTER, WALL INPUTS FOR HDM, USB, VGA, POWERVOLUME/ SOURCE INTERFACE PLATE. SOUND SYSTEM SHALL HAVE SEPARATE CONTROLS FOR INTEROR SPEAKER(S), EXTERIOR SPEAKERS, OR BOTH AREAS.

NEED INTRUSION ALARM AT EXTERIOR DOORS AND POSSIBLY MOTION AT LARGE WINDOWS. INCLUDE SENSOR AND SECOND KEYPAD IN ELECTRIC ROOM FIRE RISER SHALL NOT HAVE SENSOR

PIMA COUNTY WILL PROVIDE CUT-SHEETS ON EQUIPMENT

SENSOR

KP ALARM KEYPAD. OFOI

WAP WIRELESS ACCESS POINT. OFOI GC TO INSTALL 2 CABLES.

SECURITY CAMERA. OFOI, GC TO INSTALL CABLE.

# SOUTHEAST LIBRARY SPECIAL SYSTEMS SCOPE

# Note: Conduit & boxes for IT are already part of original scope

ITEM	CFCI	OFCI	OFOI	Basis Of Design
1 Data/Phone/Cable				
a. Cabling/Devices/Wall plates	X			
2 Card Readers				Apti-Q
a. Conduit/Boxes/Power	X			
b. Equipment/Wiring	X			
3 CCTV System				
a. Conduit/Boxes/Cabling	X			
b. Cameras/Equipment			X	
4 Hearing Loop System				Listen Loop Technolog
a. Conduit/Boxes/Equipment	X			Harris Hearing Loop
5 TV/Audio				
a. Conduits/Boxes/Equipment	Х			See plan
6 Intrusion Alarm				
a. Power/Low Voltage cabling	X			
b. Equipment			X	
7 People Counter				Amseco
a. Power to Counter Display	X		_	
b. Equipment			X	

Pima County will provide a basis of design (cut-sheets) for all equipment. Pima County will provide direction on locations and function of items.

Legend

CFCI = Contractor Furnished, Contractor Installed

OFCI = Owner Furnished, Contractor Installed

OFOI = Owner Furnished, Owner Installed



# aptiQ.

# aptiQ<sup>®</sup> Multi-technology readers

# Overview

aptiQ multi-technology readers by Allegion are designed to simplify your access control solutions. Transition your system from proximity to smart card technology at your own pace without having to change out readers as new technologies are available. aptiQ readers handle all applicable ISO standards (14443A, 14443B, 15693), are FIPS 201-1 compliant and are versatile enough to read 125kHz proximity and 13.56MHz contactless smart cards in a single unit. aptiQ multi-technology readers interface with aptiQ smart credentials (MIFARE® Classic and MIFARE DESFire™ EV1) and can read the card serial numbers of a variety of smart cards from other manufacturers, making your next upgrade in technology simple and seamless. Additionally, aptiQ readers are already NFC compatible and able to communicate with NFC-enabled phones whenever you're ready to take that step.

aptiQ multi-technology readers use an open architecture platform designed to work with industry standards and common access control system interfaces. Multiple aptiQ reader form factors are designed to fit a variety of placement needs, with an attractive modern design which will complement any facility's architecture and décor. aptiQ readers are very easy to install with the quick-connect design and a standard wiring color scheme that most technicians are already accustomed to. But if you do have questions, you'll never worry about lack of service or assistance. As always, our knowledgeable sales and support staff is ready to assist you with any design or technology questions you may have.

Note: Magnetic stripe multi-technology readers also available.

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# Features and benefits

- Accommodates interior, exterior, metal, and non-metal installation environments
- Recognizes most proximity credentials, and aptiQ smart credentials (MIFARE® Classic and MIFARE DESFIRe™EV1)
- FIPS 201-1 compliant
- NFC compatible, reads aptiQmobile™ credentials
- Quick-connect design for easy installation
- Simple wiring color scheme is identical to most readers in the market
- Easy-to-install mounting bracket
- Tri-state LED (red, green, amber) visual indicator and audio feedback representing status and activity information, easily discernible for the audibly or visually impaired
- Wiegand output for simple interface with most access control panels
- Multiple reader cover color options
- Limited lifetime warranty
- Multi-technology readers may also be ordered with RS-485 capability

						100 M
Model*	PRIO	SM10	MTII		MTIS	MTK15
Reader type	Proximity mini-mullion*	Smart mini-mullion°	Multi-technolo mullion	ogy	Multi-technology single gang	Multi-technology single gang keypad
Frequency	125 kHz	13.56 MHz			- 13.56 MHz and 125 kHz	z
FIPS 201-1 compliant	No			Yes		
Standard default PIV output	N/A			75 bit PIV	ree	
Standards	N/A	8		014443A, 1444	3B, 15693	
Certifications	FCC Cer	tification · IC Certification ·	UL 294 Listed • F	&TTE Directiv	e (15 EU Countries) · CE I	Mark · IP65
Voltage range			5-16 VD	C		
Power supply	8		Linear DC			
Current requirement (at 12 VDC and 25 C; mAmps)	Avg. 65 mA Peak 110 mA	Avg. 95 mA Peak 195 mA	MT11 Avg. 100 mA Peak 170 mA	MT11-485 Avg. 115 mA Peak 145 mA	MT15 & MT15-485 Avg. 120 mA Peak 200 mA	MTK15 and MTK15-485 Avg. 120 mA Peak 230 mA
Read range	Proximity: Up to 3" (7.5 cm)	MIFARE: Up to 3" (7.5 cm) DESFire EV1: Up to 2" (5.1 cm)	Proximity: Up (12.7 cm) MIFARE: Up to (10 cm)	to 5" o 4"	Proximity: Up to 5" (12.7 cm) MIFARE: Up to 4" (10 cm)	DESFire EV1: Up to 2" (5.1 cm) PIV credential: Up to 2.5" (6.5 cm)
Cable specification	<b>U</b>	18 A	WG, 5 conductor s	tranded/shield	led	·····
System interfaces	Wiegand	Wiegand / Clock & Data			/ Clock & Data / RS-485	" (OSDP)
Cabling distance			Wiegand output: 5	00 ft. (152 m)		
Physical dimensions (H x W x D)	4.26" x 1.72" x 0.81" 10.8 cm x 4.4 cm x 2.1 cm	4.26" x 1.72" x 0.81" 10.8 cm x 4.4 cm x 2.1 cm	5.91" x 1.72" x 0.81" 5 15 cm x 4.4 cm x 2.1 cm		5.1" x 3.25" x 0.76" 12.9 cm x 8.3 cm x 1.9 cm	5.1" x 3.25" x 0.76" 12.9 cm x 8.3 cm x 1.9 cm
Operating temperatures			-40º to 158ºF (-4	0° to 70°C) -		
Weight	4.1 oz	3.9 oz	5.7 oz		9.1 oz	9.3 oz
Material	<b>H</b>		PBT Poly	mer		
Technologies supported in d	lefault mode					
Schlage Proximity						
XceedID <sup>™</sup> Proximity						
HID <sup>®</sup> Proximity						
GE/CASI ProxLite®						
AWID <sup>®</sup> Proximity		-				-
LenelProx <sup>®</sup>						
aptiQmobile		8			8	
Schlage MIFARE®		<b>D</b> 1				
XceedID MIFARE*			1.00			
aptiQ smart cards using MIFARE™ Classic						
aptiQ smart cards using MIFARE DESFire™ EV1					1.00	•
DESFire*CSN		•				•
HID ICLASS® CSN						
Inside Contactless PicoTag <sup>®</sup> CSN						
ST Microelectronics® CSN						
Texas Instruments Tag-It*	CSN		•			
Phillips I-Code® CSN						





\* Some features and benefits listed on the front may not be applicable to the smart-only and proximity-only readers.
 \*\* Other output options available through configuration.

\*\*\* RS-485 model numbers include "-485" after the original model number. For example, MT11-485 is the RS-485 version of the multi-technology mini-multion reader. Multi-drop, Open Standard Device Protocol (OSDP).

# **About Allegion**

Allegion (NYSE: ALLE) is a global ploneer in safety and security, with leading brands like CISA? Interflex? LCN? Schlage<sup>®</sup> and Von Duprin? Focusing on security around the door and adjacent areas, Allegion produces a range of solutions for homes, businesses, schools and other institutions. Allegion is a \$2 billion company, with products sold in almost 130 countries. For more, visit **www.allegion.com.** 



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aptiQ . LCN . SCHLAGE . STEELCRAFT . VON DUPRIN

# Free Ground Shipping + Free Returns!\*



Equipment Books & Multimedia Gifts & Novelties Sale/Clearance Customer Service

Home / Oval Window Satellite III Large Area Loop System



https://www.harriscomm.com/oval-window-satellite-iii-large-area-loop-system.html



# ListenLOOP

Powered by Ampetronic

The D-Series MultiLoop network managed and DANTE enabled drivers make management easy.



CATEGORIES

**Compliance Systems** 

**Loopworks Measure** 

(LOOP)

Drivers

Cable

Receivers

Accessories

**TalkPerfect** 

**Consultant and Design Toolbox** 

# **KEY PRODUCTS**

ListenLOOP makes it possible to offer a personal and discreet listening experience to anyone with a telecoil technology in their hearing aid or cochlear implants without additional equipment.





# C5-1N C Series Single Loop Networkable Driver (5.0 Amps)

5.0 Amps RMS current loop output, plus ample voltage headroom, making it suitable for a wide range of applications.

# C7-1N C Series Single Loop Networkable Driver (7.0 Amps)

7.0 Amps RMS current loop output, plus ample voltage headroom, making it suitable for a wide range of applications.



# R1 \$321 00 MSRP Loopworks Measure Receiver

The R1 simply plugs into the headphone jack of the iOS device and along with the free downloadable App turns the i-Device into a Loopworks Measuring Receiver.

# Hearing Loop Solutions

Visit this for information on hearing loop solutions.





2 falst anvergenergendeter som. Milletige mangeförstattaret som

Maria Maria Patri At Au Agligan' (Milita unit- At-Nat - At Milita a Milita)

# RESOURCES

FLYER ListenLoop

FLYER TalkPerfect

RESOURCE PAGE Hearing Loop Standards

RESOURCE PAGE Hearing Loop Training

VIDEO ListenLoop Overview

VIDEO: Ampetronic D Series Hearing Loop I Induction Loop Drivers Features & Benefits

Ĩ

# As a person with severe hearing loss, I am very grateful for this amazing technology. I have benefited from the Hearing Loop several times. It's simple; it's effective and most important it helps me to hear clearly! Thank you Listen Technologies.

# – KRISTEL SCORESBY

COUNSELOR. ARISE COUNSELING CENTER

# Send

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# VDP-100 Video-Eye People Counter™

# Instruction Manual and User's Guide







Potter Electric Signal Company 2081 Craig Road, St. Louis, Mo 63146 Phone (800) 325-3936, Fax (314) 878-7264 http://www.pottersignal.com

Potter Electric Signal Company 2081 Craig Road, St. Louis, Mo 63146 Phone (800) 325-3936, Fax (314) 878-7264 http://www.pottersignal.com

# Contents

# Specifications

# 10. Specifications

# System Specifications

		Model Name	VDP-100 Video-Eye Pe	eaple Counter "			
		Operating Voltage	Video Sensor Unit Counter Display	12V DC 12V AC / 15VA			
		Power Consumption	Stand by 400r In Alarm	nA 600mA			
		Size (h x w x d)	Video Sensor Unit Counter Display	5.1" x 3.1" x 1.8" (130 x 80 x 47 mm) 4" x 3.3" x 1.2" (102 x 85 x 31 mm)			
	Description Features	Traffic Detection Method Image Sensor Lens Angle Sensor Image Resolution Video Format Processor	by a Motion Detection 1 1/4 inch Color CMOS S 90 degree Horizontal 300 lines NTSC BF531 Digital Signal P	video Camera ensor rocessor			
		Counter Chime Sound Chime Type	6 digits (999,999) of in Two distinctive chime s Volume Adjustable Ele	fependent Entry / Exit Duai Counter ounds announcing entry / exit event stronic Chime(0~85db)			
1 2		Operating Temperature Required Illumination Installation Heights Detection Area	14 Recommend 7 LUX~3, Recommend to install i 10 feet wide when insta 17 feet wide when insta	000 LUX (Indoor Use) between 7−14 feet high from the floor alled at 8 feet high alled at 14 feet high			
3	Complete Kit Parts List	Wires Specifications					
4	Precautions Installation Procedures Front Panel Controls and Names The Counter Display Settings The Video Sensor Settings Troubleshooting Specifications	Connector Cable	Two 26 ft. AWG # 22 wi Two 26 ft. AWG # 24 wi	res for 12V DC Output res for Signal Output			
6 7		* Wires of AWG # 20 or i Sensor Unit at over 300	<ul> <li>Wires of AWG # 20 or more are required for connecting the Counter Display and the Video Sensor Unit at over 300 ft.</li> </ul>				
8 9 10		Power Cord	Two 6 ft. AWG # 22 wires for 12V AC Output				
		Power Transformer Specifications					
		Power Transformer	Input 120V AC, 60F Output 12V AC	z			

Thank you for purchasing AMSECO VDP-100 Video-Eye People Counter <sup>™</sup> Please read this manual thoroughly before making connections and operating the unit. Following the instructions in this manual will enable you to obtain optimum performance from the system.

Please retain this manual for future reference.

# 9. Troubleshooting

### Condition: Cannot get the system power on.

Check the power cable connections both of power transformer and the Counter Display terminal. Check whether the in-line switch is ON. Make sure your power source is 120V AC 60Hz.

# Condition: Counter is ON but the status LED of the Video Sensor Unit is off.

Check the wiring connection of the counter unit terminal and 4P connector In case you have extended the length of wires, check whether you have used wires of required gage (AWG # 24 by 100 ft. / AWG #22 or above for over 100 ft)

Condition: Status LED is ON and blinking on traffic events, but the Counter doesn't count at all.

Check the signal cable connections.

## Condition: Counter is not accurate.

Ensure you have installed the system in the environment as required in this instruction manual such as illumination condition, installation heights or the floor condition. Move the installation position or reduce the illumination of the room if the shadows of people generate false counting.

Check whether the Video Sensor unit is facing in parallel with the floor.

### Condition: Can't get the Chime Sounds.

Check the volume control. Check the Speaker connector in the Video Sensor Unit.

Condition: I get the ENTRY chime sounds and counts when EXIT events occur, while getting EXIT chime sounds and counts on ENTRY events.

Check whether you have installed the Video Sensor Unit in the correct direction. Rounded end of the Unit must face the door (heading EXIT direction) for proper operations

# Descriptions / Features / Complete Kit Parts List

# 1. Descriptions

AMSECO VDP-100 Video-Eye People Counter ™ is the digital image tracking technology based people traffic counter and door announcer system integrating a Video Camera as a detecting sensor. The system distinguishes and counts entry / exit traffic events simultaneously by its unique Object's Motion Detection Algorithm, and provides the users very useful informstion on accumulated entry /axit traffic counts in offices, retail shops, department stores, or any other facility as well as announcing people's entry or exit events with pleasant chime sounds.

You can also use the VDP-100 as a monitoring camera by simply connecting its video output to any NTSC

### 2. Features

- Entry / Exit Distinguishable People Counter discriminsting the object's moving direction and counting entry /exit events separately
- Six Digit Resettable Counter capable of displaying up to 999,999 counts of the entry or exit
- events
- Two Distinctive Chime Sounds to announce Entry and Exit Event separately Adjustable Chime Volume
- Easier Installations not requiring additional reflector installations or edjustments
- Ceiling Mount
- CMOS Color Video Camera integrated
- Digital Signal Processor (DSP) driven system
- NTSC Video Output ready to be used as the monitoring camera
- Counter Memory Back-up from accidental Power failure

[1] Counter Display

Tamper Protection from blocking camera's view

# 3. Complete Kit Parts List

Upon opening of the package please ensure the following parts are enclosed properly before installation





3



[1] Video Cable

[1] Video Sensor Unit

[1] Power Cord with n-line-sy



# 4. Precautions

It is important that you carefully read these installation instructions before starting the installation. While the installation procedures are very simple, there are guidelines to follow to ensure that the system will operate property. The guidelines are as follows:

1) The Video Sensor Unit and the Counter Display Unit should be mounted onto a flat, firm surface

2) USE only AMSECO 12VAC transformer provided together and wires as specified in this Instructions

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MAX.

\$20

MAX

14 Fegt

3) For the maximum accuracy of the counter it is strongly recommended that you install the system in the environment satisfying the following conditions:

### Recommended Installation Conditions

Install the Video Sensor Unit in the illumination Intensity between 7 Lux to 3,000 Lux.



Installation NOT Recommended

DO NOT install the video sensor unit above the floor facing directly into the sun light or other bright lights. The shadow or reflections caused by strong lights may generate false counting.

DO NOT adjust the angle of the Video Sensor Unit over 20 degrees from normal angle.



The Video Sensor Unit is recommended to be installed maximum 14 feet high above the floor.

Recommend to install the Video Sensor Unit exactly in parallel with the floor so that the camera gets a birds-eye view of the Detection Area. Adjust the angle of the Unit by the maximum off

Refer to the dimensions of Detection Area for each installation height (Fig. 1) and clear the Detection Area from any movement of objects other than intended traffic.



Refer to the dimensions of Detection Area for each installation height on page 5 (Fig. 1), and place the Camera unit so that the passage is fully covered by the detection area.



4







(Clockwise : volume down / Counterclockwise : volume up)

The Counter Settings / The Camera / Controller Settings

6) Camera Lens

Video Sensor Unit

### 7. The Counter Display Settings

4) Volume Control: Adjusts the chime volume.

SW2 COUNTER RESET: Resets both ENTRY / EXIT Counter

Counter Reset button is designed to be reached through the pinhole under the Counter Display Unit to prevent accidental reset.
 Please use a paperclip or a similar sharp element inside the pinhole to press the reset button.

SW4 ENTRY/EXIT: Switches the display to ENTRY/EXIT counter

### 8. The Video Sensor Settings

VR1: Volume Control

SW1 RESET: System reset switch

JP1: ENTRY Chime sound selection jumper

JP2 ON = high tone sound (Factory Setting) JP2 OFF = low tone sound

Note: EXIT Chime sound stays unchanged regardless the Jumper setting.

JP2: CAMERA View block warning mode deactivation Jumper When Camera View block mode is activated, the system generates alarm sounds of repeated chimes

if the Camera View is fully blocked over 10 seconds. JP2 ON Camera View block warning mode deactivated (Factory Setting)

JP2 OFF . Camera View block warning mode activated

Although the system is designed to event false triggering of Camera View block werning during nights or under dark anninoment, we recommend to turn the power switch off during the nights or dark environment when the Camera View block werning mode is activated.

9



DOW

6



# Installation Procedures / Front Panel Controls and Names

### 5) Wiring Diagrams



# 6. Front Panel Controls and Names

### Counter Display

- Digital Counter LED Display : displays the eccumulated number of entry / exit events depending on the status of Entry / Exit indication switch.

2) Entry / Exit indication switch: At ENTRY position - the LED display indicates the number of entry events. At EXIT position - the LED display indicates the number of exit events.



Installation Procedures

# 5. Installation Procedures

1) Plan the Installation: Decide the Position of Camera / Controller Unit First

VDP-100 senses the people's movement in a cartain Detaction Area and analyzes the traffic in the Area using motion tracking technology. It is important to locate the Video Sensor Unit 1) to fully utilize the Detection Area of VDP-100, and 2) to clear the area from any movements confusing the counter.

Detection Area of the VDP-100 is different depending on the installation heights from the floor, and therefore <u>we</u> recommend you determine the detection area of the VDP-100 at your intended installation height, and find the best location of your VDP-100 before starting any other installation procedure.

Please decide the best position of VDP-100 in the following steps before starting any instellation

Step 1) Refer to Fig. 1 and find the dimensions of detection area at your intended installation height

Step 2) Stand fecing the centar of the door, and assume a square of detection area on the floor.

Step 3) Make sure people will cross at least 2/3 of the detection area when they enter.

Step 4) Make sure that the detection area is not crossing the door or the wall. Move the VDP-100 if necessary

Step 5) Make sure the area is clear from any unnecessary movement.

Step 6) The ceiling right above the center of the detection area is where you install your VDP-100 Video Sensor Unit.



Fig. 1 Installation Heights and Detection Area

5

Counter Display Status Indicator:
 Indicate whether the counter is displaying ENTRY counts or EXIT counts.
 ENTRY or EXIT LED blinks for 5 seconds when entry or exit events occur.

# Installation Procedures

### 2) Installation of the Video Sensor Unit

Step 1) Refer to page 5 and decide the position to install the Video Sensor Unit.







Step 4) Connect the 4-pin connector and video connector to the Video Sensor Unit by snapping them in until it is secure.

Д

CLICK!!



Step 6) Pull the wires to the Counter Display Unit and move to the Counter Display Installations stage

### 3) Installation of the Counter Display Unit

Step 1) Decide a place to install the Counter Display within the reach of a Power Source

CLICK







Step 3) Refer to page 9 of this manual, and adjust the chime volume and other user options if recessary

Step 4) Now your VDP-100 Video-Eye People Counter " is ready

6

# SOUTHEAST LIBRARY SPECIAL SYSTEMS SCOPE

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