

Executive Director
Frank T. Martin



Board Chair
Theodore "Ted" Smith

TO: All Prospective Proposers

FROM: Darryl Grayson, Contracts & Procurement Manager

DATE: March 16, 2021

SUBJECT: Addendum 1- RFP #21-06 BRT Fare Collection System

The following change(s) have been made to the above-mentioned RFP. This document (hereinafter referred to as **Addendum 1**) becomes a binding component to the RFP and the resulting contract award. All proposers must include acknowledgment of the Addendum with submission.

Included Documents / Revisions

	Original Dates	New Dates
Deadline for Questions	March 5, 2021, 3:00 PM CT	No Change
Issuance of Responses to Questions:	March 12, 2021, 5:00 PM CT	March 16, 2021
Proposals Due:	March 22, 2021, 10:00 AM CT	March 29, 2021

- Proposals can now be submitted via email, send to tvmproposals@bjcta.org by 03/29/2021 at 10:00am.
- Questions & Responses for RFP# 21-06 Fare Collection System (Attached).
- Download BRT TVM Pricing Sheet(Excel) from the solicitation webpage and submit the completed form separately in a sealed envelope labeled " RFP #21-06 Cost Proposal" on the proposal due date

Acknowledgment to Addendum 1

Signature Date

Print Title



**RFP #21-06 FARE COLLECTION SYSTEM
QUESTIONS & RESPONSES**

NO.	SOLICITATION REFERENCE	COMMENTS / QUESTIONS	RESPONSE	DATE RECEIVED	ANSWERED IN ADDENDUM
1	Request for Proposal	Due to the impacts of the Covid-19 pandemic transit agencies across North America have realized the need for fare payment solution that facilitates the reduction of passenger/driver interaction. This need has caused numerous agencies to issue RFPs within the past month, all due within days of one another. In order to ensure that we and other bidders have sufficient time to develop a proposal that meets the needs of COB and its passengers, we are requesting a three-week extension of the March 22 proposal submission deadline.	One (1) week time extension will be granted. See revised TVM Timeline Schedule.	2/26/2021	01
2	Request for Proposal	Due to the impacts of the Covid-19 pandemic may we submit the proposals via e-mail?	Yes, Due to COVID-19 Pandemic , BJCTA will allow proposers to submit this solicitation to tvmpostals@bjcta.org	2/26/2021	01
3	Request for Proposal	After COB posts responses to questions, will there be an additional opportunity for vendors to request additional clarifications in writing?	No. the one-time deadline was 3/05/21	2/26/2021	01
4	Request for Proposal	Does COB have a list of approved DBEs?	Please see the listing on the solicitation webpage of the Unified Certification List of Disadvantaged Business Enterprises certified to do business in Alabama. Also see ALDOT link for current listing at https://cpmsapps2.dot.state.al.us/alucp/home	2/26/2021	01
5	Request for Proposal	Can COB please define types of businesses proposers can contract to support the 10.5% DBE goal (ex. WBE, Veteran, etc.)	Please refer to the following website. You may do a search for specialties or NAICS codes as relevant to services listed in RFP. https://cpmsapps2.dot.state.al.us/alucp/home Click on "ALUCP Directory"	2/26/2021	01
6	Request for Proposal	Can COB please elaborate on the CAD/AVL system that will be utilized by the buses and provide documentation for the API it needs vendors to integrate to (i.e., provider and any onboard equipment)?	The CAD/AVL system is Ecolane Fixed Route. Documentation will be provided upon award. Most TVM's publish through GTFS, which will be available.	2/26/2021	01



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7	Request for Proposal	In section 3.2.3 The validator will communicate with the CDS through the mobile data router. Can COB confirm that the mobile data router on the bus has spare ethernet port (as implied) for use by the validator?	There are 4 ethernet ports on the DIGI WR64 modem. There will be a spare port available.	3/05/2021	01
8	Request for Proposal	Can COB confirm the data router (and associated data plan) that is provided by COB (not in vendor scope) and confirm the data plan can accommodate additional monthly data transfers of up to 100MB per modem.	The DIGI WR64 modem has a limit of a 2GB data plan. There are other devices using this modem. There is a possibility of 100MB availability for TVM data usage.	3/05/2021	01
9	Request for Proposal	Can COB confirm the model of mobile data router?	The modem is DIGI WR64.	3/05/2021	01
10	Request for Proposal	Request that BJCTA consider offering an extension of 30-days for the response to the RFP. For us to be able provide BJCTA with a comprehensive response and the short time that exists between the time response to the questions submitted and the due date for the response of March 22nd. It is our opinion that it would be more favorable to the agency to permit this extension. Would this be acceptable BJCTA?	The committee has agreed to a 1-week extension with a new due date of March 29, 2021	3/05/2021	01
11	Request for Proposal	In section 3.1.3 Mechanical Features, it states the following "Cabinet constructed material shall be made of 11-gauge steel or similar with vandalism/graffiti resistant surface finish (Power coat with color approval by BJCTA). The proposed TVM that BEA-TT will be offering is constructed in two different gauges. The revenue door is 11-gauge; however, the cabinet and the upper door of the TVM is manufacture with 14-guage steel and is Power coated. The TVM has been deplored and has stood up to all vandalism/graffiti it has been exposed too, plus it has operated without issue under the environment conditions it has been deployed. Will BJCTA accept this as an alternative manufacture approach for this requirement?	All proposals which include details of the TVM cabinet constructed material which provide a vandalism/graffiti resistant surface finish will be considered.	3/05/2021	01



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12	Request for Proposal	<p>In section 3.1.4 TVM System Performance Requirements, subsection 3.a., the following is stated: "Ticket Vending Machine including coin and bill/note acceptance function shall meet either the Mean Cycle Between Failure (MCBF) or Mean Time Between Failure (MTBF) based criteria listed below, whichever comes first" The question BEA-TT has related to this requirement, has BJCTA projected what the usage (fare purchases) will be for the first year of operations of the TVM's and then what is the projected growth on an annualized basis?</p>	<p>City of Birmingham (COB) is designing and constructing The Birmingham Express (BX) a new, local public transit system to be operated by The Birmingham Jefferson County Transit Authority (BJCTA). Since this is a new service, no statistical information of system usage is available.</p>	3/05/2021	01
13	Request for Proposal	<p>In a couple of the sections of the RFP, BJCTA references the possibility of offering or using a magnetic stripe ticket as one of the fare medias: The question BEA-TT has, would BJCTA consider using other types of fare medias in place of this, such as smart cards, QR Code or mobile app. By taking this approach it would be less costly in the long term of the operation of the TVM's. Since the industry is evolving to a more advance method of offering and accepting the use of fare products, along with the issuing and validating of fare passes. The TVM we have three (3) ways to process fare payments and passes for riders, described below:</p> <p>a) Smartcards: This media will process fare products and support of all types of passes. Through the use of a smartcard, it can accommodate three kinds of scenarios, which is money, passes and trips which would support 120 different rider classifications. Through this method, BJCTA will experience less maintenance on the TVM, compared to the use of a magnetic stripe ticket printer, which has numerous mechanical components and will required a great deal of maintenance support.</p>	<p>The Point-of-Sale machine should have the capability to issue all fare media listed in the RFP. In the event, Proposers propose an alternative approach, they should include any exceptions in their proposals.</p>	3/05/2021	01



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		<p>b) QR Technology; when a rider pays with cash at the TVM and the requests a fare passe for a shorter period of duration, such as one-way ride or an all-day pass, the TVM can dispense a pass that has a QR Code printed on it which can be scanned on a reader validator on the BRT buses which will authenticate the pass.</p> <p>Additionally, the QR scanner device on the TVM can be used to read QR codes from Mobile Ticketing Applications that would authenticate the passes. Which obviously; both the thermal paper and the mobile app will have less cost associated with it, compared to using a magnetic stripe ticket media.</p> <p>c) NFC Technology (Optional); In the future the TVM will be in the position to support the use of debit/credit cards from both Apple-Pay and Google-Pay</p> <p>Based on the above we would recommend that BJCTA not introduce a magnetic stripe technology for this solution, since the transit industry is transitioning away from this legacy technology. Will BJCTA accept this as an alternative approach for this feature requirement?</p>			
14	Request for Proposal	Will BJCTA accept this as an alternative approach for this feature requirement?	In the event that proposers submit an alternative approach, they should include any exceptions in their proposals.	3/05/2021	01
15	Request for Proposal	We would like to request an extension for this deadline until March 12th.	The committee has agreed to a 1-week extension with a new proposal due date of March 29, 2021	3/05/2021	01
16	Request for Proposal	Please provide the engineers financial estimate or budget allocated for this project	The engineer's estimate is confidential. The release of this information may compromise the integrity of the competitive bidding process. cost will not cause immediate disqualification.	3/05/2021	01



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17	Request for Proposal	Will BJCTA accept this as an alternative approach for this feature requirement?	In the event that proposers submit an alternative approach, they should include any exceptions in their proposals.	3/05/2021	01
18	Request for Proposal	Please confirm that the integration will take place between back-end systems and that a cable/connection between the validator and CAD/AVL system is not required on board	Contractors should provide how this integration will take place in their proposals.	3/05/2021	01
19	Request for Proposal	Please provide the make and model for all bus types where validators are to be installed as well as any available schematics or photos of on-board installation points.	Model: New Flyer XN40 Bus. See attached Schematic and Photo on pages 14 , 15 and 16	3/05/2021	01
20	Request for Proposal	Will external convertors or power conditioners be used to eliminate power fluctuations?	Positive battery disconnect switch - required with quick access through flip-open door. Uses a micro-switch for engine shutdown.	3/05/2021	01
21	Request for Proposal	Please elaborate on what license is required. Also, if the installation team is insured, is this sufficient as there is no need for bonding and there is no specification for bonding provided in the RFP.	Any required licenses, insurances and bonding for work to be performed for installation.	3/05/2021	01
22	Request for Proposal	We request that this clause also include reasonable cancellation costs(supply/contacts, unusable supplies, etc.) in addition to work performed.	No cancellation costs will be the responsibility of BJCTA.	3/05/2021	01
23	Request for Proposal	Consumables, such as receipt paper, etc. should be excluded	Paper receipt stock is included in the System Price Table in Section 7.9.2	3/05/2021	01



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24	Request for Proposal	Genfare is in receipt RFP# 21-06 Birmingham Bus Rapid Transit (BRT) for a Fare Collection System. Upon reviewing the RFP, we respectfully request clarification of the following: 1. RFP Sec. 3.1.3 bullet 2, page 19 requires the TVM cabinet to be in the range of 70" high x 18" wide x 12" deep – a small footprint for a full-service TVM. To give us a better understanding of space constraints, please provide dimensioned drawings of (a) a typical BRT station showing the desired TVM location(s), and (b) the BRT station having the most constrained dimensions (tightest fit), also showing the desired TVM location.	Model: New Flyer XN40 Bus. See attached Schematic and Photo on pages 14 & 15	3/05/2021	01
25	Request for Proposal	Sec. 3.1.8.1 bullet 6, page 22 requires the TVM to "include a sealed, self-contained and motorized compact coin channel and selector." We are uncertain what is being described. Please clarify and provide an example of anticipated operation	Proposers should state the characteristics of their TVM's coin acceptance.	3/05/2021	01
26	Request for Proposal	Sec. 3.2.3, page 26 refers to a mobile data router for the validator to communicate to the CDS. Please clarify who is responsible for providing the mobile router and whether it will be available on all buses for communication between the validator and CDS. Our planned solution requires minimal bandwidth and can share a router with other applications.	BJCTA will provide the mobile data router and it will be available on all buses for communication between the validator and the CDS.	3/05/2021	01
27	Request for Proposal	Sec. 3.2.4, bullet 5.b, page 27 requires the validator to be provided with a stainless-steel mounting pole "no less than 6.0 inches in diameter." Validators typically mount on a bulkhead, dashboard or stanchion measuring 1" to 1¼" in diameter. Why is a mounting pole at least 6" in diameter required?	Contractors should include any exceptions in their proposals.	3/05/2021	01



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28	Request for Proposal	Sec. 3.3.1, bullet 6, page 28 requires the handheld ticket inspection device (HTID) to “communicate bi-directionally with the validator and/or TVM.” Handheld inspection devices typically communicate directly with the CDS via 4G/3G. What is the use case for having the HTID communicate with the validator and/or TVM?	Contractors should include any exceptions in their proposals.	3/05/2021	01
29	Request for Proposal	Sec. 3.3.3, page 29 requires “The Contractor shall install all mobile fare inspection and validation devices at designated locations.” Why must a mobile device be installed at a fixed location, and what type of installation is envisioned?	Any hardware and software that needs to support the Handheld Ticket Inspection Devices would be installed in a BJCTA facility.	3/05/2021	01
30	Request for Proposal	Sec. 3.4, page 29 requires the point of sale (POS) machine “shall enable service agents/operators to issue and upgrade both smart cards and magnetic tickets/cards; print sales receipts and print on magnetic ticket stock the time/date and type of fare product information.” Sec. 3.4.1(6) requires the POS shall be “customizable with a ... magnetic dispenser.” These are the only references to magnetic fare media in the RFP. Does BJCTA envision that the proposed system shall use magnetic tickets? If so, please indicate the anticipated use of magnetic tickets and which fare devices will process or distribute them.	The Point-of-Sale machine should have the capability to issue all fare media listed in the RFP.	3/05/2021	01
31	Request for Proposal	Sec. 6.2, bullets 12-14, page 36 refers to reports involving origin/destination pairs. The RFP gives no indication that BJCTA anticipates a tap-on, tap-off fare collection system in which riders tap their cards on entering and exiting the bus. That being the case, how does the system know riders’ destinations for use in compiling origin/destination reports?	Unique ticket serial numbers with multiple origins should be used to produce origin/destination pairs.	3/05/2021	01



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32	Request for Proposal	Can BJCTA please allow the electronic PDF copy of the proposal to be sent via secure email or other electronic delivery method?	Yes, Due to COVID-19 Pandemic , BJCTA will allow proposers to submit this solicitation to tvmproposals@bjcta.org	3/05/2021	01
33	Request for Proposal	BJCTA has indicated that it is looking for an open architecture system with a cloud-based back office and hardware used in other systems, yet the RFP lists hundreds of hundreds of requirements that appear to be requesting a system that is designed and developed to specification. Is BJCTA open to a platform-based Software-as-a-Service (SaaS) solution that provides a significant majority of the capabilities that BJCTA is requesting, but is not developed specifically for BJCTA?	In the event, Proposers propose an alternative approach, they should include any exceptions in their proposals.	3/05/2021	01
34	Request for Proposal	5. Can BJCTA please provide the System Price Table in Section 7.9.2 as an excel file?	The System Price Table in Section 7.9.2 page 44 has been provided via the download link on Solicitation web page.	3/05/2021	01
35	Request for Proposal	Section 7.8 requires liquidated damages, which are appropriate only for heavily customized bespoke systems. By contrast, modern Software-as-a-Service (SaaS) solutions use Service Level Agreements (SLAs) to ensure ongoing system performance and a transaction fee pricing structure in which the Contractor only gets paid when passengers use the system, so the agency only pays for the success of the platform. Is BJCTA open to removing or negotiating the Liquidated Damages terms in favor of using Service Level Agreements and transaction fees to allow SaaS contractors to respond to this RFP?	In the event, Proposers propose an alternative approach, they should include any exceptions in their proposals.	3/05/2021	01



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36	Request for Proposal	Can BJCTA confirm that they are open to a solution that is designed to rely on remote troubleshooting and in-person support for critical milestones, but does not require permanent on-site support?	In the event, Proposers propose an alternative approach, they should include any exceptions in their proposals, as long as the support meets service level agreement.	3/05/2021	01
37	Request for Proposal	Would BJCTA be open to being responsible for routine field maintenance of the hardware included in this project in order to save cost?	In the event, Proposers propose an alternative approach, they should include any exceptions in their proposals.	3/05/2021	01
38	Request for Proposal	Who is the CAD/AVL provider for the BX BRT service?	Ecolane is the CAD/AVL provider.	3/05/2021	01
39	Request for Proposal	For the CDS system, is it acceptable to have one solution that manages the TVMs/POS and one that provides reporting/managing of the overall Fare Collection System, provided that financial and ridership reporting can be integrated?	In the event, Proposers propose an alternative approach, they should include any exceptions in their proposals.	3/05/2021	01
40	Request for Proposal	Section 3.4 - Are the two Point of Sale machines intended to be used for BJCTA-managed locations or third-party retail locations?	The two Point of Sale machines intended to be used for BJCTA-managed locations.	3/05/2021	01
41	Request for Proposal	In Section 3.5.1, what is meant by "The ability to link with local bike share, scooters, and transportation network companies such as Uber and Lyft" ? Is BJCTA referring to deep links within the app?	Proposers should provide details on how their solution provides this desired ability.	3/05/2021	01



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42	Request for Proposal	Have you received un-solicited bids for this fare project? If so by what vendors?	No unsolicited bids were received for this fare collection project	3/05/2021	01
43	Request for Proposal	Who is the current fare vendor for BJCTA?	Genfare is the current fare vendor for BJCTA.	3/05/2021	01
44	Request for Proposal	Does the current BJCTA fleet have validators and if so when were they purchased and installed?	BJCTA does not have validators.	3/05/2021	01
45	Request for Proposal	Why is BJCTA only looking to equipment the 11 BRT buses and not the entire fixed route fleet with validators?	This solicitation is for the Birmingham Express (BX) only.	3/05/2021	01
46	Request for Proposal	What is the vision on data sharing and what data are you looking to share between the systems?	BJCTA is looking for innovative forward-looking proposals which will address all of these characteristics.	3/05/2021	01
47	Request for Proposal	Why is this under a Buy America section and what is the requirements of the mobile ticketing application to interface with "contactless cards"?	All manufactures outside the U.S. must follow Buy America guidelines. The application to interface with contactless card should be defined in the vendors response to this RFP	3/05/2021	01
48	Request for Proposal	So, if vendors have a better or alternative way to meet the requirement, they could be deemed non-compliant and rejected?	All proposals will be evaluated in accordance with the criteria and procedures described in Section 2.20 Evaluation Criteria.	3/05/2021	01
49	Request for Proposal	Will the Agency accept 24 inches wide by 13 inches in depth BJCTA	The TVM cabinet dimensions are approximate.	3/05/2021	01
50	Request for Proposal	Will the Agency also consider coin and bill revenue collection events as cycles? .	All required actions from fare media selection to the completion of the ticketing issuing transaction will be considered	3/05/2021	01
51	Request for Proposal	Will the Agency accept a single walled ruggedized stainless-steel cashbox?	The cashbox in the TVM shall be resistant to theft.	3/05/2021	01



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52	Request for Proposal	What was used to determine the "Engineer's Estimate" for this project? Did BJCTA receive unsolicited proposals for this project and if so from what vendors?	The engineers estimate was prepared by a multi-disciplined team that has experienced key personnel dedicated to the success of this project with the requisite technical skills. No unsolicited proposals received.	3/05/2021	01
53	Request for Proposal	Please provide clarification on this. Are you stating that if proposers do not accept all the terms, conditions and specifications as written then it may result in disqualification? It states "termination", but that, I would assume, would mean after the successful vendor and BJCTA agree on a final SOW and terms and conditions and you have a fully executed contract? It is confusing as it sounds like if you would be terminating a contract, but then it goes on to state you may be declared a "non-responsible proposer". The language seems to read as if proposers cannot recommend any changes in our response, but as it is written seems to be more for a contract and not instructions. Please clarify.	Contractors should include any exceptions in their proposals.	3/05/2021	01
54	Request for Proposal	Please define a timeframe of "ADDITIONAL PURCHASES" and do you mean by BJCTA? Others	There is no timeframe.	3/05/2021	01
55	Request for Proposal	Can you please provide additional details as to the knowledge of the Evaluation Committee of fare collection Contractor's? Has the evaluation committee seen presentations, webinars etc. in the last 12 months from vendors and if so what vendors? Was the specification based on any particular vendor?	The evaluation committee consist of qualified representatives from BJCTA, City of Birmingham, and qualified consultants with expertise as it relates to fare collections. Yes, the eval team has seen several presentations, webinars etc. from various vendors. No, the specifications were not based on any particular vendor.	3/05/2021	01
56	Request for Proposal	When does BJCTA anticipate a Best and Final Offer (BAFO), if applicable, to be requested in the process?	To be determined.	3/05/2021	01
57	Request for Proposal	How was the goal for this project calculated and what areas does BJCTA anticipate DBE participation? Given the short turnaround for response please consider extending the current proposal due date to allow proposers to seek DBE participation from qualified firms?	BJCTA has an overall goal of 10.5%. BJCTA will adhere to this goal due to no certified DBEs in this field in the state of Alabama. See revised TVM Timeline Schedule for approved time extension	3/05/2021	01



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58	Request for Proposal	Please provide a basis for calculation. What is the estimated volume? Vendors will need to add risk to the price of media if no estimate is given. Volume estimate would also need to be included for any special events (e.g., World Games).	Quantities were provided in the System Price Table in Section 7.9.2	3/05/2021	01
59	Request for Proposal	Does this mean the BRT service will be operating 24 hours per day, 7 days per week?	No, The Fare Collection System should be fully and accurately functioning 24 hours per day, 7 days per week.	3/05/2021	01
60	Request for Proposal	Sec. 8.2, bullet 1, page 45 requires the contractor “Shall provide Routine, Priority and Scheduled Warranty repairs (inclusive of failed part removal, replacement installation and operative functionality re-testing), for all FCS components (e.g., TVMs, Validators, POS, and HTIDs)” during the warranty period. Do we correctly understand that the contractor is to provide TVM field maintenance?	The Contractor is to provide all TVM maintenance.	3/05/2021	01
61	Request for Proposal	please clarify who is to perform preventive maintenance on the equipment during the warranty period, the contractor or BJCTA?	All maintenance during the warranty period is to be performed by the Contractor.	3/05/2021	01
62	Request for Proposal	Are we correct in assuming TVM revenue service – i.e., replenishment of cash modules and ticket stock – is the responsibility of BJCTA?	BJCTA will provide revenue service on all TVMs.	3/05/2021	01
63	Request for Proposal	Secs. 9.1 and 9.2, page 46 requires the contractor to perform scheduled, preventive and remedial maintenance during the 3-year maintenance period following expiration of the warranty. Does BJCTA anticipate that the contractor will maintain staff on-site at the agency for this purpose throughout the maintenance period?	It is not required that the Contractor maintain staff on-site at BJCTA.	3/05/2021	01
64	Request for Proposal	, please clarify the envisioned division of labor between BJCTA and contractor staff with respect to maintenance. For example, who is responsible for frontline field maintenance?	All maintenance including frontline field maintenance will be provided by the Contractor.	3/05/2021	01



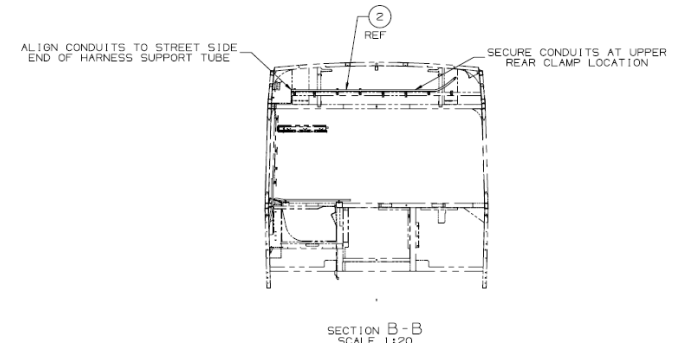
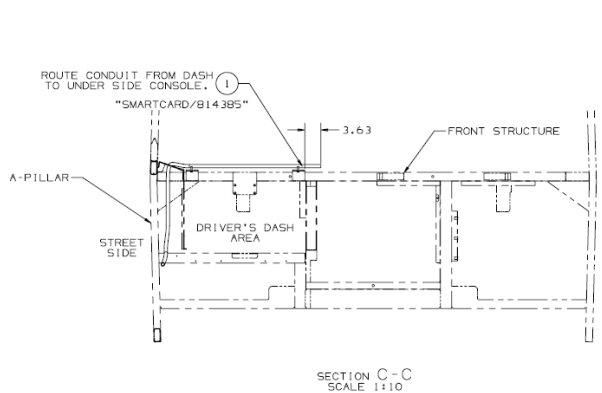
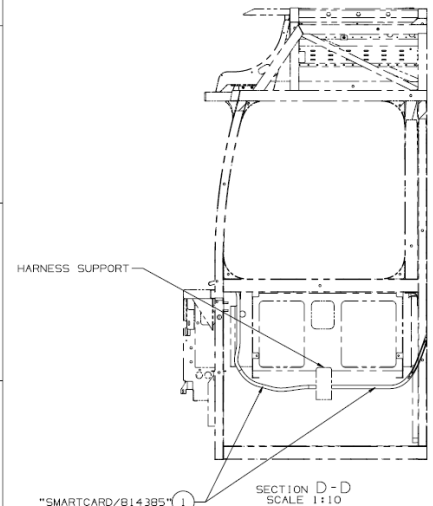
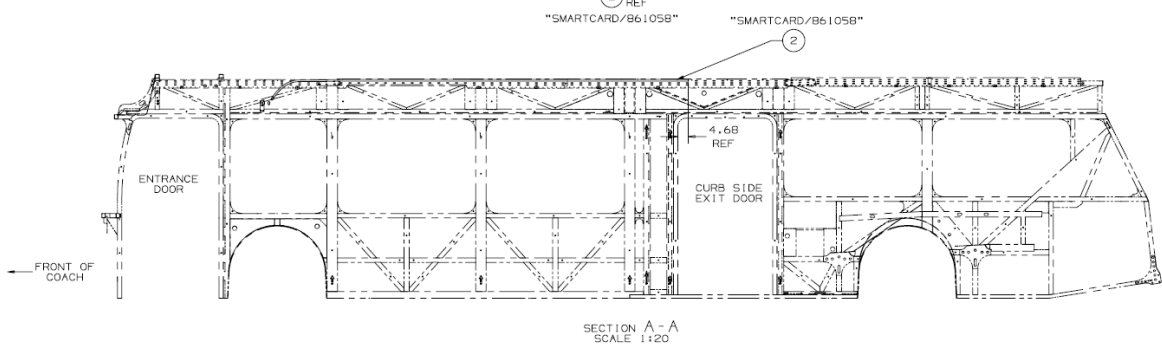
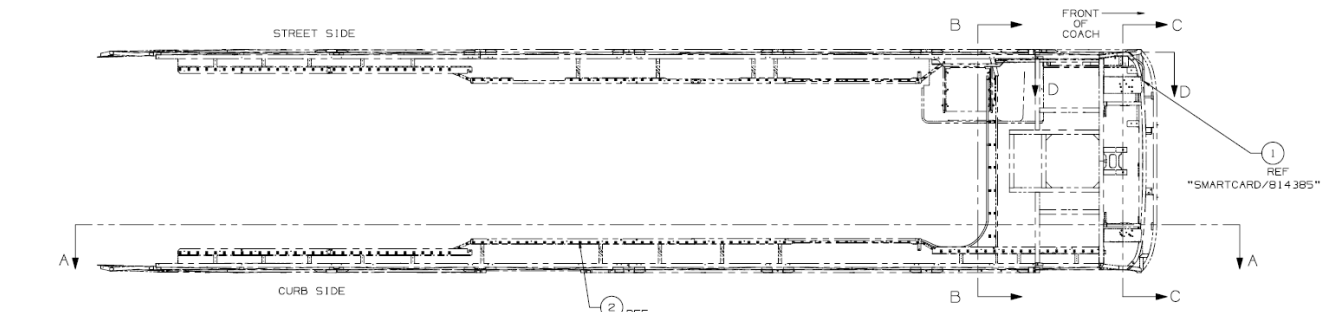
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65	Request for Proposal	Please define "most responsive" and "most responsible" and "most advantageous or best value proposal."? How will this be determined? Does this mean that if proposers have a better way of doing something, but need to take an exception and/or alternative then this will not be welcomed because it would not be fully compliant with how the requirement was written?	Proposals will be evaluated, negotiated, selected and any award made in accordance with the criteria and procedures described in 2.20 Evaluation Criteria. Selection is based on Best Value and most advantageous to the BJCTA.	3/05/2021	01
66	Request for Proposal	Should vendors assume that BJCTA has hardwired network connections at all locations? If not, how many do you want equipped with a cellular modem?	Proposers should assume BJCTA has hardwired network connections at all locations and should indicate in their proposals if cellular modems could be added if a hardwired network connection is not available.	3/05/2021	01
67	Request for Proposal	Please provide details how these features were determined and from what technical specifications they were derived?	These features are specific to BJCTA	3/05/2021	01
68	Request for Proposal	Please provide the APTA, or other, security standards you are wanting proposers to review and comply.	Proposers should state if their equipment conforms to any security standards and guidelines.	3/05/2021	01
69	Request for Proposal	In Section 2.20.1, two of the evaluation criteria (Proposed Methodology #2 and Training and Support #2) refer to meeting BJCTA's schedule needs. What are BJCTA's schedule needs?	The BJCTA schedule was provided at the Pre-Proposal Conference and the PowerPoint slides are available on the BJCTA website. The timeline is on slide 19.	3/05/2021	01
70	Request for Proposal	Item 3.1 TVM "The proposed TVM will be nearly identical in design and construction to a model deployed and in revenue services at a minimum of three (3) US transit agencies": can you accept references regarding TVMs installed outside USA?	Proposers can list references outside the US, but a minimum of three US transit agency references are required.	3/05/2021	01

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NOTE: FOR INSTALLATION DRAWINGS PLEASE REFER TO ATTACHED WIP BOX SHEET FOR PARTS LISTING

DRAWING N°
866235



"SMARTCARD/B14385" REF
ROUTE CONDUIT THROUGH HARNES SUPPORT IN SIDE CONSOLE AREA. SECURE CONDUIT TO EXISTING LOOM WITH TYRAPS

- NOTES:
- 1) SECURE ALL CONDUITS ALONG HARNES SUPPORTS
 - 2) ENSURE 3 FEET OF FISHWIRE COILED AT EACH END OF CONDUITS
 - 3) DROP FISHWIRE INTO SDS HARNES SUPPORT AREA

DO NOT SCALE DRAWING	
DIMENSIONS IN T.T ARE IN M.M.	
THO ANGLE	
DRAWN BY VINCENT VERSEL	
DATE (DD-MM-YY)	RELEASED TO PRODUCTION
28-SEP-20	ECO

QTY	U/M	ITEM	PART NO.	DESCRIPTION	WEIGHT
31	EA	3	5955945	TYRAP-14.0 BLACK	-
1	EA	2	B61058	ASSY-CONDUIT SMARTCARD_264"	-
1	EA	1	B14385	ASSY-CONDUIT SMARTCARD_132"	-

MATERIAL	N/A	INSPEC'D TO:	SEC. IN:	TITLE
WEIGHT		INS. DIA.	INS. DIA.	INS. DIA.
TREATMENT	NOT REQUIRED	ANGLE TOL.	ANGLE TOL.	ANGLE TOL.

INSTL-PROVISION, SMART CARD	
SCALE 1:116	PART N° 866235
SHEET 1 OF 1	

Validators will be placed in Circled Area

WATCH YOUR STEP
PISE CON CUIDADO



ITPr4 OUTBOUND

(1511 4TH STREET S)