

CONTRACT FOR PROJECT MANAGEMENT AND INTEGRATION SERVICES FOR KCLV

THIS CONTRACT is being entered into this _____ day of _____, 2011, by and between the CITY OF LAS VEGAS (hereinafter the "City"), a municipal corporation within the State of Nevada having its principal office at 400 Stewart Avenue, Las Vegas, Nevada 89101, and SONY ELECTRONICS INC (hereinafter the "Company") a Corporation within the State of Delaware having its principal office located at 1730 North First Street, San Jose, California 95112-4508.

SECTION A – Contract Form

The subject matter of this Contract is the Project Management and Integration Services to design, procure, sell and integrate the Video and Audio Systems for the City of Las Vegas Cable Channel 2 KCLV including the relocation of existing operations to a New City Hall, as more particularly set forth herein.

SECTION B – Basic Terms

B-1 Definitions

The following definitions apply to this Contract:

- (a) "Acceptance or Accepted" means written notification by the City to the Company that the deliverables received in their current form are compliant with the terms of the Contract.
- (b) "Acceptance Testing Period" means the 15 days following Company's notice of Substantial Completion to the City.
- (c) "Award Date" means the date that a Contract becomes effective. It is the date that is entered into the first paragraph of this Contract upon execution by an authorized representative of the City.
- (d) "City" means the City of Las Vegas.
- (e) "City Council" means the governing body of the City of Las Vegas.
- (f) "City Furnished Equipment" means all products, equipment and accessories furnished by the City to the Company for use in the System.
- (g) "Company" means the individual, partnership, or corporation responsible for the performance of services under this Contract.
- (h) "Company Representative" means the individual authorized to act on behalf of the Company regarding routine matters arising under or relating to this Contract.
- (i) "Contract" means this document, consisting of Sections A through F, which is binding and effective only upon execution by the City and Company.
- (j) "Deliverable" means any report, software, hardware, data, documentation, or other tangible item that the Company is required to provide to the City under the terms of the Contract.
- (k) "Equipment" means all products, equipment, materials, and accessories furnished by the Company pursuant to the terms of this Contract.
- (l) "Final Acceptance" means the City has successfully completed the Acceptance Testing Period and issued written document to the Company indicated that the Work and the System is compliant with the terms of the Contract.
- (m) "Non-exclusive Contract" means a Contract under which the City agrees to obtain some, but not necessarily all, of the City's requirements for a particular service.

- (n) "*Project Manager*" means the City representative who is responsible for the coordination of Contract performance between the City and the Company.
- (o) "*Software*" means the programs, routines, and symbolic languages that control the functioning of the Equipment and direct its operation, including, without limitation, computer software programs, source code, object code, executable code, or other program or code format whatsoever, whether now known or hereafter developed, existing on any storage media whether machine executable or human readable, printed or imprinted form, including , without limitation, modifications, enhancements, translations, updates, and upgrades thereto.
- (p) "*Substantially Complete or Substantial Completion*" means the stage in the delivery of Equipment and Software and the performance of Work for the System when same is operational and ready for use. Must be capable to broadcast a City Council Meeting from the New City Hall.
- (q) "*System*" means the integrated combination of the Equipment and the Software which provides the City with the System that meets the operational requirements and specifications as described in the Contract.
- (r) "*Work*" means the designing, programming, procurement, testing, and implementation services to be performed by the Company, as more particularly described in this Contract.

B-2 Contract Type

The Contract type is firm fixed price for design and a not-to-exceed amount for the management and integration services to procure and integrate the video and audio systems for the City of Las Vegas Cable Channel 2 KCLV including the relocation of existing operations to a New City Hall to the extent set forth in this Contract. This is a Non-Exclusive Contract.

B-3 Prices/Costs

- (a) The Company shall provide services and invoice for payment in accordance with the following estimated delivery schedule:

<u>Item No.</u>	<u>Description</u>	<u>Delivery Schedule</u>	<u>Amount</u>
1	Conceptual Design Delivery	10/10/2011	\$140,706
2	Site Mobilization – Delivery of Final Project Schedule	12/08/2011	\$243,501
3	Detail Design Delivery	12/21/2011	\$156,537
4	Lighting Installation Completion	01/15/2012	\$380,803
5	Equipment Ready to Ship	02/16/2012	\$631,617
6	System Operational (Substantial Completion)	03/07/2012	\$998,487
7	Final Acceptance	04/03/2012	\$600,000
8	Not-To-Exceed Reimbursable Travel Expenses	Ongoing	\$106,349
Total Amount			\$3,258,000

The budget for this project is \$3,258,000 and that is the total authorized amount by the City, without a Contract Modification.

Applicable prevailing wage is included in Exhibit A "Prevailing Wage"

- (b) Reimbursable Travel Expenses. If travel is required in performance of services under this Contract, reasonable travel expenses will be paid when services are performed in Las Vegas. Reimbursement is subject to certain limitations. The City will reimburse airfare up to the cost of a coach fare, with 7-day advance purchase. Reimbursement for all other expenses including, but not limited to, lodging, meals, transportation, rental cars, parking, and incidental expenses, will be paid at a per diem rate of \$164.00 per day. This per diem rate will start concurrently with the first day of work performed on site at the City and end with the last day of scheduled on site work at the City. The Company must complete a minimum of six (6) hours of work for every day a per diem is paid. Company shall coordinate all travel in advance with the City's Project Manager.

B-4 Invoices

(a) The Company shall submit an invoice to the City in accordance with the payment schedule set forth in Paragraph B-3 (Prices/Costs) above. All invoices should identify the following items:

- (i) the date of the invoice and date invoice number,;
- (ii) the purchase order number;
- (iii) the Contract Item against which charges are made;
- (iv) performance dates covered;
- (v) receipts for Reimbursable Expenses/Travel Expenses; and
- (vi) copy of the Progress Report, signed/approved by City's Project Manager.

Upon reconciliation of all errors, corrections, credits, and disputes, payment to the Company will be made in full within 30 calendar days. **Invoices received without a valid purchase order number will be returned unpaid.** The Company shall submit the original invoice to:

Department of Finance and Business Services
ATTN: Accounts Payable
City of Las Vegas
400 Stewart Ave.
Las Vegas, NV 89101 – 2986

(b) The Company shall forward a copy of the invoice to the City's Project Manager identified in Paragraph D-2 (Project Manager/Company Representative).

B-5 Performance Period

The performance period commences from Award Date and continues through the completion of services provided as defined in the final project schedule, unless extended through mutual agreement by both parties.

SECTION C – Statement of Work

C-1 Scope of Services

The Company shall be responsible for design of a high definition television studio facility to include equipment procurement, relocation, installation, integration, documentation and project management services required by the City to relocate the existing KCLV Cable Channel 2 broadcast facilities from 221 N. Las Vegas Blvd. and 400 E. Stewart Ave., Las Vegas, Nevada, 89101, to a new location currently under construction at 495 S. Main Street.

C-2 Design

- (a) The Company shall use the current City Hall plans and information gained through project meetings and site visits to generate accurate design/install specifications.
- (b) Company is not a professional engineering firm and shall review the current City Hall plans and provide guidance to the general contractor and architect to enable them to design and construct the facility as necessary to meet the requirements of the System, including but not limited to electrical, mechanical, space, and structural to support their proposed design.
- (c) The Company shall confirm, and be responsible for, all broadcast and production operation design, including signal flow, media workflow, and any subcontractor designs described in this Contract.
- (d) The Company will recommend a new HD house codec that will be used for all workflows.
- (e) The Company shall provide an Apple certified integrator to aid in existing Apple related design.
- (f) The Company's team shall include a TV Broadcast lighting design and installation integrator and a TV Broadcast lighting director to design, procure, and install all TV Broadcast lighting in the studio area and the

council chambers. Preliminary designs are included in City provided Exhibit C "Council Chamber Lights" and the current City Hall building plans.

(g) The following minimum requirements/specifications must be included in the design and documentation:

- (i) The studio requires two separate light grid truss systems for TV lighting. This light system will be required to:
 - 1. Raise and lower independently for rigging, installation, and adjustment of TV production lighting if the budget will allow.
 - 2. Be remote controlled via wall mounted switches and/or handheld pigtail control switch if the budget will allow.
 - 3. Be operational with the use of a lighting dimmer board.

Note: The Company shall coordinate installation of the light grid truss systems with Forest City.

- (ii) A custom input output panel (I/O panel) shall be required in most areas. The design will include recommendations on the following connectivity:
 - 1. HD Digital video input BNC, SDI input BNC, analog video input BNC,
 - 2. HD Digital video output BNC, SDI output BNC,
 - 3. HDMI input and output
 - 4. analog video output BNC
 - 5. analog audio input XLR
 - 6. analog output XLR
 - 7. digital audio input XLR
 - 8. digital output XLR camera Triax™ input
 - 9. house Cat6e RJ-45
 - 10. house phone RJ-11
 - 11. intercom input XLR
 - 12. multiple Gigabit Ethernet
 - 13. multiple fiber optic connections
- (iii) An all-weather (wiper/heater), remote pan, tilt, zoom, iris controlled HD camera setup shall be designed to support a future procurement and installation on the roof. Mounting design shall prevent any excessive camera shake caused by excessive wind. The camera will be a source on the router frame and the switcher in Production Control. Company shall ensure the camera is mounted to avoid any visual obstructions to the extent practicable. Installation shall be limited to the camera wiring by Company who shall coordinate access for installation of the camera wiring with the City Hall Developer, Forest City. The City is responsible for any required roof penetrations and penetration seals associated with the camera mount and wiring.
- (iv) Data storage and data archive must include a tiered design of storage using deferring technologies (FC, FCoE, SATA, iSCSI, SAS, Solid State Disk). Design shall incorporate the existing tape backup system and software for off-site tape backups only. The design must integrate and be fully compatible with the KCLV Final Cut Server systems
- (v) City Hall power plans and existing infrastructure shall be reviewed and verified for sufficient electrical equipment loads. If the provided facility power circuits or UPS circuits are not sufficient or not part of the new building, the Company shall design and provide a stand-alone uninterruptible power supply (UPS) systems compatible with the system requirements. These stand-alone UPS devices will have network connectivity for remote monitoring and control. All critical on-air path equipment as defined in this document and located in the equipment room, Master Control, and both control rooms shall be powered by the facility UPS power circuits. Standalone UPS systems are required for all critical on-air servers and equipment. The cost for the engineering, provision and installation of any additional UPS devices is the responsibility of the City.
- (vi) An existing corner room green screen chromakey set will be moved and reconfigured for use as a full wall green screen chromakey set in the new studio. Additional components required for the

reconfiguration shall be provided by the Company. Company shall coordinate the relocation and reconfiguration with the City's Project Manager.

- (vii) A multi-channel, multi-user, room-to-room, broadcast grade facility intercom system. The system will include rack mounted user stations, wall mounted user stations, and wireless user stations. The system will be tied into the studio cameras via CCU intercom connections. Review the workflow areas for intercom locations and room numbers.
- (viii) One satellite system shall have Analog and HD uplinking functionality for both C and KU band. This includes any necessary encoders and decoders.
- (ix) One HDTV camera shall be located in the studio for production and monitoring purposes. The camera will be controlled by remote control pan/tilt/zoom controls located in the production control room. The source video will be for monitoring the studio as well as a source on the switcher for use during production shows.
- (x) A new whole-facility HD router with multiviewer monitors is required. Main multiviewer locations will be; Production Control Room, Master Control, and the Council Chambers Control Room.
- (xi) The Company will incorporate current Apple Final Cut Studio workstations in all workflow areas. Each workstation is required to be upgraded to work seamlessly in all HD signal flows, subject to the limitations of the Final Cut Studio workstations and software. Current AJA and Blackmagic I/O devices/cards shall be replaced with HD compatible equipment.
- (xii) The Company shall contact all the local media affiliates Chief Engineers in coordination with the City's Public Affairs Office, and receive specifications for design and install of the curbside ENG/EFP I/O panels (Note: contact information to be provide by the City after contract award). The specifications will be used to reasonably ensure that all local media will be able to have connectivity to all needed media areas. These panels will terminate in the equipment room and in other areas and floors of the New City Hall building. There will be a mix of audio and video I/O connections as required by the local media. The City shall provide IT networking equipment required for the connection and distribution of the Ethernet network connections to the I/O panels and equipment signal sources. The Company shall provide a list of recommended models and quantities of the networking equipment.
- (xiii) Design shall include relocation of the antenna for master GPS clock with a new location on the roof or other suitable location within the new building. GPS antenna must be cabled to the Production Control Room Master GPS clock.
- (xiv) The Company is encouraged to offer design and/or equipment suggestions in their responses. Any suggested equipment substitutions shall be of equal or better design, form and function. All new equipment shall be UL listed.
- (xv) An AM/FM type legacy antenna will be relocated to roof of the new facility with connectivity through existing conduit that terminates in room number 1082 if budget will allow.
- (xvi) The Company must incorporate into the design specific areas of the existing facility that must operate 24/7 during design, pre-installation, assembly and integration. These areas include Master Control, Production Control, Studio A, Studio B, Edit bays, Council Chambers Control Room, Server Room.
- (xvii) The design shall require the use of City furnished conduit and cable tray systems for all cable connectivity within the scope of this Contract. The design shall also require the use of City furnished conduit and cable tray systems for all cable connectivity within all other areas of the City Hall complex including the Council Chambers, rooftop satellite equipment, Mayor's conference room, Lobby, and curbside ENG/EFP truck feeds. The Company will research the feasibility of designing and installing fiber optic infrastructure for floor to floor and/or curbside truck feeds.
- (xviii) Design shall include connectivity to and from the Equipment room and all areas of the building site. . All conduit, cable tray, and facility cable conveyance shall be the responsibility of the City.
- (xix) Conceptual drawings, which provide an overview of each subsystem to establish the direction for design. Conceptual Drawings should be simplified to provide an overview and ease of understanding of each subsystem which clearly depict the direction for design. A single block may represent multiple units, so a major subsystem can be depicted on one drawing. Details such as cable numbers or database correlation are not required in conceptual drawings.

- (xx) Approval drawings are detailed drawing sets that meet the design criteria established in this Contract. All sub-systems shall be drawn in detail, including single-wire runs. These drawings do not include any cable numbers or database correlation.
- (xxi) Installation level drawings, which are detailed drawings that include cable numbers, special notes required for special connections (such as pin-outs for control cables). Installation Level Drawings shall include all detailed documentation required to fabricate and install the system.
- (xxii) The Company is also required to design and install I/O panels in various areas and floors of the new City Hall building. The Company shall review the current city hall building plans to design and install all studio and floor to floor workflow areas.
- (xxiii) Company shall provide a list of proposed equipment that will be procured to achieve the design. The New Equipment List is provided as preliminary reference only and the Company is encouraged to recommend substitutions, brand changes, updated equipment additions, deletions, or other changes. Any suggested equipment substitutions shall be of equal or better design, form and function.
- (xxiv) Proposed room layouts and conceptual elevations will be required in this Contract.
- (xxv) All new and existing satellite antennas will have new HD type receivers/controllers. Company shall indicate if they intend to reuse existing digital City Furnished Equipment (CFE) satellite receivers/controllers.
- (xxvi) Company shall review "City Provided Cable, Connector, and Labeling" specifications in Exhibit F and incorporate into the design.
- (xxvii) Design shall provide rear support for all equipment.

C-3 PROCUREMENT

Upon final approval and acceptance of the design and budget, the City will provide the Company with written approval to initiate the procurement of material and equipment.

- (a) The Company shall be responsible for all material and equipment procurement including correct material and equipment part numbers and quantities, purchase order generation, purchase order tracking, material and equipment receipt, material and equipment warehousing, material and equipment payment, and CFE material and equipment tracking and handling. All material and equipment procurement must be approved in writing by the City Project Manager prior to any purchase by the Company. Materials and/or equipment installed under this contract that do not meet the approved design documents will not be accepted by the City and shall be immediately replaced at the Company's expense.
- (b) The Company shall be responsible for protecting all equipment and materials procured under this contract until final acceptance by the City. This includes, but is not limited to, securing the work locations, storage areas, and vehicles used for transportation.
- (c) Material shall include but not be limited to cable, connectors, tie-wraps, labeling materials, custom built hardware, custom control panels and pre-manufactured cables not supplied with manufacturer delivered equipment.
- (d) The Company shall comply with the following requirements in regard to this procurement.
 - (i) All materials must have prior approval of City.
 - (ii) The Company shall use only industry-accepted materials for the project. The City may reject any materials supplied by the Company for reasons of poor workmanship, poor quality, or misrepresentation of specifications.
 - (iii) The Company shall provide equipment rack slides for all applicable equipment.
 - (iv) Racks screws shall be black with nylon washers.
 - (v) Adjustable Velcro type cable ties will be used when possible instead of permanent cable ties.

C-4 RELOCATION

- (a) The Company shall identify and prepare a CFE list for relocation from the existing facility for transport to the new KCLV-TV Studios. When preparing the list of CFE for relocation, the Company shall immediately notify the City Project Manager of any non-functional equipment or that in need of maintenance. Any equipment disconnected from the system without the City's prior approval shall be considered fully functional.
- (b) The Company shall deliver all CFE equipment to the new KCLV-TV Studios. All equipment to be relocated shall be considered delicate electronic equipment, and shall be moved by individuals qualified and experienced in the relocation of sensitive electronics and shall utilize air-ride equipped trailers.
- (c) The City shall be responsible for providing secure storage space for the new and relocated equipment and assuming risk of loss on delivery to the site. The Company shall extend all reasonable effort to protect the equipment during relocation and installation at the new site until final acceptance by the City. This includes, but is not limited to, securing the work locations, storage areas, and vehicles used for transportation.
- (d) The Company shall be responsible for removal, delivery and re-installation of the existing Winstead tape storage system.
- (e) The Company's team shall include an individual Certified by Apple for the design, procurement, installation, moving, and re-installation all new and existing Apple and non-Apple SAN related equipment. All operating system and file system software will be upgraded to current versions. All equipment firmware will be upgraded to current versions. Equipment will include, but is not limited to:
 - (i) Apple Mac OS X
 - (ii) Apple Xserve Servers
 - (iii) Apple Mac Pro Edit Workstations
 - (iv) Apple XSAN
 - (v) Apple Final Cut Pro
 - (vi) Apple Final Cut Server
 - (vii) Qlogic Fiber Switches
 - (viii) Promise RAIDs
 - (ix) APC UPS Systems with serial connections to Promise Raid
 - (x) Atempo Time Navigator
- (f) The Fiber and GigE backbone: The City is responsible for backup of all existing media, data, and databases stored for movement and/or copying to the expanded SAN volumes. The Company will work with City to research appropriate industry standard HD codecs and design the new system for current and future media volume capacity. The Company will coordinate and schedule the data move/copy and resync all media, data, and databases with the newly expanded SAN volumes. Hardware and software of the existing Final Cut Pro Workstations will be evaluated for integration into the new HD workflow. Internal and/or external HD I/O hardware will be required. Hardware and Software of the existing Master Control Automation Servers will be evaluated for integration into the new HD workflow. The Company shall ensure the system remains fully-operational at all times. Therefore, the Company shall provide all necessary servers and/or raids to serve as temporary Air Operations equipment while the Master Control equipment is moved or built. The Company's design shall include upgrade of all legacy equipment to the most current software version and most current firmware.
- (g) The Company will review the current City Hall building plans and existing conditions to verify the satellite mounting systems included in the building infrastructure are sufficient for acceptance of new and existing satellite antenna and equipment.
- (h) Company is responsible for procurement of one (1) new satellite down link and one (1) new uplink antenna, and any materials and equipment required to relocate one (1) existing satellite down linking and up linking antenna and other satellite system support equipment are required to be moved and re-installed.

C-5 INSTALLATION

Unless otherwise specified, the Company shall be responsible for installation of all materials and equipment identified in the approved design. In performing the installation, the Company shall coordinate access and schedule with Forest City and the City's project manager.

- (a) The Company shall install pre-designed and approved TV lighting systems in the KCLV studio and in the council chambers. The Company shall review City Provided Exhibit C "Council Chamber Lights" and the building plans to coordinate with a broadcast TV lighting subcontractor. Refer to architectural plans for electrical/data connection locations and hoist hang points.
- (b) The Company shall also install I/O panels in various areas and floors of the new City Hall building
- (c) The Company shall provide an Apple certified integrator to design, procure, install, move, and re-install all new and existing Apple and non-Apple SAN related equipment and software including but not limited to:
 - (i) Apple Mac OS X
 - (ii) Apple Xserve Servers
 - (iii) Apple Mac Pro Edit Workstations
 - (iv) Apple XSAN
 - (v) Apple Final Cut Pro
 - (vi) Apple Final Cut Server
 - (vii) Qlogic Fiber Switches
 - (viii) Promise RAIDs
 - (ix) APC UPS Systems with serial connections to Promise Raid
- (d) The following specifications relate to the Fiber and GigE backbone. The following rooms/areas are required to have Fiber/Ethernet connectivity to the SAN equipment located in the Equipment Room (1072). Room numbers denote room number on the architectural plans. One drop per room unless otherwise noted. One drop will consist of 4 fiber pairs and 4 Ethernet pairs.
 - (i) 1093 Camera Storage
 - (ii) 1962
 - (iii) 1063 - 8 Drops
 - (iv) 1072-1073-1064
 - (v) 1087 Production Control Room - 4-6 Drops
 - (vi) 1086 Master Control Room- 8-10 Drops
 - (vii) 1095 Audio Control - 4 Drops
 - (viii) 1011,1098,1103,1097,1100,1099,1102
 - (ix) 1146-1147
 - (x) 1149
 - (xi) 1091 Maintenance
 - (xii) 1093 Camera Storage
 - (xiii) 1088 Studio - One drop per set area.
 - (xiv) 1090 Truck Garage
 - (xv) 2048B Council Control Room - 2 Drops
 - (xvi) 2040 Council Chambers

- (e) A room-to-room broadcast grade facility intercom system shall be designed and installed and integrated into the production intercom system. Company shall verify wall box locations on the architectural plans.
- (f) The Company will implement infrastructure and storage platform for all the production applications as defined in Attachment 2 "Sony Preliminary Work Plan".
- (g) The Company shall be responsible for pre-installation, on-site and off-site, as required by the project design. Installation shall include cable fabrication (cutting and preparing all cabling), CFE and new equipment pre-installation (receiving, unpacking, assembling, testing and installing into racks and consoles), power strip installation into racks, and cable pre-installation (connecting and lacing cabling into racks).
- (h) Company shall install new and existing satellite down linking and up linking antennas and other equipment as required by the approved design. Access for installation shall be coordinated with Forest City.
- (i) Any permanent cable ties will be cut flush as to avoid any injury to City.
- (j) Company shall install, fasten, anchor, mount, and assemble racks, consoles or other structures required for the system.
- (k) The Company shall verify and observe all minimum conduit fill factor, and tension limitations as specified by the cable manufacturer and/or the EIA/TIA standards when installing all cables. When conflict exists between existing conditions, specifications, manufacturer recommendations and standards, the more stringent criteria shall apply. Any conditions not meeting these criteria must be immediately brought to the City Project Manager's attention. Wherever possible, conductors shall be designed to utilize existing wireway pathways.
- (l) The Company shall design and install any required cable tray dividers per NEMA VE1 standards.
- (m) Company shall assure correct final fit and finish of all work surfaces, casework, racks, mounting hardware and physical device interconnections.
- (n) The Company shall be responsible for all design, installation, set-up, testing, troubleshooting, and equipment/software commissioning.
- (o) The Company shall be responsible for all system integration, alignment, set-up, test, and troubleshooting, including the resolution of problems due to defective pre-build, assembly or faulty materials. The Company shall test all system connections for continuity and proper phase and submit documentation verifying test completion and satisfactory test results prior to system acceptance.
- (p) The Company shall provide original equipment manufacturers operations manuals as provided with the new Equipment, which documents equipment operation. The Company shall conduct a detailed orientation of the system for selected City personnel, including an overview of the operations manual. As part of the training defined in the Attachment No. 2 "Sony Preliminary Work Plan". the Company shall assist the City in developing high level Standard Operating Procedures for the efficient operation of the TV Studio facility.
- (q) The Company shall furnish and coordinate any crane and rigging services needed for installation of roof mounted satellite dishes and/or antennas. Access to roof must be coordinated with Forest City. Design and installation of all roof mounting structures, structural reinforcements, mounting pads, anchor bolts, and roof penetration seals is the responsibility of the City.
- (r) The Company shall furnish and coordinate any rigging services needed for installation of CFL lighting in council chambers, or work with Forest City to arrange installation. The CFL lighting is limited to lighting the dais, staff areas and front row of the audience seating area.

- (s) The Company shall coordinate and provide operational and maintenance training including any specialized vendor only training. Maintenance training is limited to routine cleaning and operator adjustment of the equipment and does not include instruction on remedial repair, parts replacement or calibration.

C-6 INTEGRATION

- (a) The Company shall provide an Apple certified integrator to design, procure, install, move, and re-install all new and existing Apple and non-Apple SAN related equipment and software. Subject to existing hardware compatibility, Company shall update all Apple software and firmware to current Apple OS and filesystem software and firmwares as defined in the Attachment 2 "Sony Preliminary Work Plan". Current software versions are noted below. Equipment will include, but is not limited to:
 - (i) Apple Mac OS X (current version 10.6.3)
 - (ii) Apple Xserve Servers (current version 10.6.3)
 - (iii) Apple Mac Pro Edit Workstations
 - (iv) Apple XSAN (current version 2.2.)
 - (v) Apple Final Cut Pro (current version 7.0.2.)
 - (vi) Apple Final Cut Server (current version 1.5.2.)
 - (vii) Qlogic Fiber Switches
 - (viii) Promise RAIDs
 - (ix) APC UPS Systems with serial connections to Promise Raid
- (b) The Fiber and GigE backbone shall be provided and installed in accordance with the approved design.
- (c) The UPS systems shall be provided by the City and installed in accordance with the approved design.

C-7 PROJECT MANAGEMENT

- (a) The Company shall provide a single point of contact for the project and shall be responsible for the coordination and management of the work performed within the scope of this Contract.
- (b) The Company shall be responsible for all supervision including scheduling, managing, and quality assurance of all designers, installers, and laborers, employed by Company for this project.
- (c) The Company shall develop and update a project schedule with critical milestones for project completion and shall inform the City of any potential scheduling problems or risks to on-time completion. The Schedule should include but should not be limited to the items in Exhibit D Project Schedule Detail.
- (d) The Company shall attend scheduling meetings as required by City.
- (e) Company shall verify the existing City Hall infrastructure in the new workflow areas is sufficient to support the design, including but not limited to, electrical power requirements, power and heat loading, cooling requirements, lighting for operational areas, operator ergonomics or other requirements that affects architectural planning. The Company will contact the City for any building construction or infrastructure issues that are revealed during the design stage.

- (f) The Company shall provide the City with weekly project status reports. These reports should address the project schedule, equipment order status, inventory status, project costs, budget summaries and variances, critical needs or issues, and other areas. The Company shall be responsible for the quality of design, workmanship and handling of all of the material, equipment and systems it designs, provides, installs, relocates, and integrates. The Company shall maintain the City's facilities and equipment in a clean and/or orderly fashion at all times. The Company shall replace, at its expense, any equipment that is lost or damaged in transit or while in the possession of the Company. The Company shall replace, at its expense, any equipment that is lost, damaged or stolen while project is being integrated at the new facility.
- (t) The Company will be responsible for verifying the location of all electrical connections and immediately notify the City project Manager if issues are revealed.

1. DOCUMENTATION

- (a) The Company shall review all City supplied construction documents including current as built drawings for compatibility with their proposed design and immediately notify the City project Manager if issues are revealed.
- (b) The Company will identify to the City any issues identified during design or installation that will effect successful completion of contract. The Company shall provide accurate, as-installed documentation including all items addressed in this RFP and suitable for the City to use to verify operations and testing.
- (c) The Company shall guarantee to submit as-installed drawings and required documentation. Drawing deliverables shall include one printed ANSI C size hard copy set and two tabloid 11 x 17 hard copy sets, plus one electronic copy of all project documentation defined herein. All electronic copies shall be formatted in MS Word 2007™, MS Excel2007™, AutoCAD2000i™ and Adobe Acrobat™. Submittal and City approval of this documentation is a condition for final acceptance of this Contract. The Company shall correct any discrepancies discovered by City, at Company's expense.
- (d) The Company shall submit documents as defined below during the performance of this Contract as established in the project schedule. Updated documents shall be provided in hard copy and electronic copy as part of the As-Installed drawing submission prior to final acceptance of the work.
 - (i) New Equipment: List This shall be a listing of all new equipment, which recommends changes to be integrated into the new City facility. This list will be in Microsoft Excel format and will include equipment manufacturer, model number, rack location, quantity, and description, sell price, extended price, function, and a notes column for additional information.
 - (ii) CFE Equipment: List This shall be a listing of all legacy CFE equipment to be integrated into the new City facility. This list will include all legacy equipment in storage at the existing KCLV facility. This list will be in Microsoft Excel format and will include equipment manufacturer, model number, rack location, room location, quantity, description, unit, function, and a notes column for additional information.
 - (iii) Cable Run lists: This shall be provided in Microsoft Excel format and will identify each cable's: number, equipment source (from), source location, equipment destination (to), destination location, cable type, and cable length (as required)
 - (iv) Patch Bay Layouts: These shall identify each Patch Bay patching position including jack type, ID number of attached cable or cables and patch bay strip designation identifying signal path source or destination.
 - (v) Patch Bay Elevations: These shall show front views of all patch bays and identify each patching position, including patch bay strip designation and each signal path source or destination.
 - (vi) Floor Plan and Layouts: These will show plan views of all technical spaces with dimension and placement of equipment, millwork, doors, pathways, etc.
 - (vii) Rack Elevations: These will show front and rear views of all equipment racks, with nomenclature to indicate actual rack unit location and placement of each piece of equipment

- (viii) Equipment Console Detail (As required): Plan and elevation drawings of sufficient detail and scope to allow equipment console vendor to design and properly install needed broadcast equipment consoles for the production control room, audio room, and master control.
- (ix) The Company shall provide As-Built drawings to reflect minor changes during installation and integration. As-Built drawings shall include a complete drawing set as described herein, cable database, and in router look-up tables.

a) PROJECT SCHEDULE

The Company shall submit a schedule using a Microsoft compatible schedule indicating both the Company and City's expected critical milestones, the proposed project completion timetable and the critical path. The Company's schedule chart should include the following milestones

- i) Conceptual Drawing
- ii) Existing Equipment List development
- iii) New Equipment List development
- iv) Meeting(s) with architect, City staff, general contractor, mechanical engineer, electrical engineer and other consultants and sub-contractors as required
- v) Finalized Approval Leveled Design
- vi) System checkout (a review that the system will work as designed).
- vii) Written Design Approval by City
- viii) Detail / Shop drawings
- ix) Equipment and Materials Pricing
- x) Complete equipment list per City-approved drawings
- xi) Hardware and software purchase
- xii) Equipment shipping and receiving
- xiii) Begin Build
- xiv) Fifty percent point of fabrication
- xv) Deliver offsite pre-builds
- xvi) Start of on-site installation
- xvii) Onsite hardware installation
- xviii) Final Build
- xix) Room-to-room cabling
- xx) Floor-to-floor cabling
- xxi) Exterior/roof cabling
- xxii) System inter-connect
- xxiii) Start / end of testing
- xxiv) System level testing
- xxv) End of on-site installation
- xxvi) Substantial completion

- xxvii) Delivery of As-built drawings
- xxviii) Training

C-8 Deliverables

- (a) The Company shall provide a preliminary project schedule and a conceptual design (Item 1 B-3 Prices Costs).
- (b) The Company shall provide a site mobilization plan and a final project schedule (Item 2 B-3 Prices Costs).
- (c) The Company shall provide an official design, and a revised statement of work (Item 3 B-3 Prices Costs).
- (d) The Company shall provide an acceptance document signed by the City Project Manager for the installation of lighting (Item 4 B-3 Prices Costs)
- (e) The Company shall provide documentation showing that equipment is ready to ship (Item 5 B-3 Prices Costs)
- (f) The Company shall provide documentation showing substantial completion of the Video and Audio Systems for the City of Las Vegas Cable Channel 2 KCLV and Council Chambers that is signed by the City Project Manager (Item 6 B-3 Prices- Costs).
- (g) The Company shall provide documentation of Final Acceptance and as installed documentation signed by the City Project Manager. (Item 7 B-3 Prices-Costs)

SECTION D – Special Clauses

D-1 Legal Notice [CAO-7/24/08]

- (a) All legal notices required pursuant to the terms and conditions of this Contract shall be in writing, unless an emergency situation dictates otherwise. Any notice required to be given under the terms of this Contract shall be deemed to have been given when:
 - (i) received by the party to whom it is directed by hand delivery or personal service, or
 - (ii) transmitted by facsimile with confirmation of transmission, or
 - (iii) sent by U.S. mail via certified mail-return receipt requested at the following addresses:

FOR THE CITY: City of Las Vegas
 Manager, Purchasing and Contracts
 City Hall, First Floor
 400 Stewart Avenue
 Las Vegas, Nevada 89101-2986
 Fax: (702) 384-9964

FOR THE COMPANY: Sony Electronics Inc.
 Senior Manager, Systems Solutions
 1730 North First Street
 San Jose, California 95112-4508
 Fax: (408) 352-4172

A copy of any legal notice sent by the City shall also be sent to:

Sony Electronics Inc.
16530 Via Esprillo
San Diego, CA 92127
Attention: General Counsel
Fax (858) 942-7597

- (b) The parties shall provide written notification of any change in the information stated above.
- (c) An original signed copy, via U. S. Mail, shall follow facsimile transmissions.

- (d) For purposes of this Contract, legal notice shall be required for all matters involving potential termination actions, litigation, indemnification, and unresolved disputes. This does not preclude legal notice for any other actions having a material impact on the Contract.
- (e) Routine correspondence should be directed to the Project Manager or the Company Representative, as appropriate.

D-2 Project Manager/Company Representative [CAO-7/24/08]

- (a) The City designates Dan Mastroluca as the Project Manager for this Contract. The City will provide written notice to the Company, should there be a subsequent Project Manager change. The Project Manager will be the Company's principal point of contact at the City regarding any matters relating to this Contract, will provide all general direction to the Company regarding Contract performance, and will provide guidance regarding the City's goals and policies. The Project Manager is not authorized to waive or modify any material scope of work changes or terms of the Contract.
- (b) The Company designates Steve Young as the Company Representative for this Contract. The Company will provide written notice to the City, should there be a subsequent Company Representative change. The City has the right to assume that the Company Representative has full authority to act for the Company on all project related matters arising under or relating to this Contract, but the Company representative is not authorized to waive or modify any changes to the terms and conditions of the Contract.

D-3 Delivery/Title and Risk of Loss

- (a) The Company shall deliver the Equipment to and prosecute the Work and complete the System at the site specified in this Contract.
- (b) Title to each item of Equipment shall pass to City upon City's Acceptance and final payment of the same.
- (c) Risk of Loss of each item of Equipment shall pass to the City upon delivery to the designated Work site location, except for any loss or damage resulting from the fault or negligence of the Company or any subcontractors of the Company. .

D-4 Warranty

The Company shall provide the City with the following warranties for the System for a period of one (1) year commencing on the date of Substantial Completion. Equipment and software sold by Sony as part of the System carries the manufacturer's (or, in the case of software, the licensor's) standard warranties:

- (a) For the equipment manufactured by Sony, the limited warranty for the product as identified in the Sony Limited Product Warranty, a copy of which is attached hereto as Exhibit E. "Sony Limited Product Warranty".
- (b) For Equipment manufactured by other than Sony, all warranty rights therein assignable to the City by the Company or the Company's subcontractor.
- (c) The Company warrants that the Work shall be provided in a professional manner consistent with industry standards so that the System when operated properly will substantially conform to the requirements of the Contract Documents for a period of one (1) year from the date of Final Acceptance. The Company will use such commercially reasonable efforts, at its own cost and expense, to correct any such non-conformity identified by the City and reported to the Company within the warranty period. Such report from the City must specify in writing how such non-conformity fails to substantially conform to the Work.

EXCEPT FOR THE WARRANTIES SET FORTH IN THIS SECTION, COMPANY HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE RESPECTING THE EQUIPMENT, THE WORK OR THE SYSTEM.

D-5 Intellectual Property Rights; License

All right, title and interest (including patents, copyrights and trademarks) in and to all Deliverables provided to the City under this Contract, including all data, notes, Software and documentation, is and shall remain the exclusive property of Company or its licensors, except that title to Equipment shall pass to the City as provided in Section D-3(b) hereof.

For Deliverables other than Software, Company hereby grants to the City a personal, non-exclusive, non-transferable license to use and reproduce such deliverables solely for its internal use in connection with the System.

With respect to Software, Company hereby grants to City a personal, non-exclusive, non-transferable license to use in the United States each licensed copy of the Software only: (i) for its internal use; (ii) on the System; and (iii) only so long as it owns, leases, or otherwise enjoys the right to use the System. City may make one (1) copy of the Software for back-up purposes; provided, however, that all copyright and other proprietary notices contained on the original are included on the copy. City may not decompile, disassemble, reverse engineer or otherwise attempt to ascertain the source code of the Software or any part of it. City shall also comply with any other terms and conditions which may be furnished with the Software.

D-6 Licenses/Registrations [CAO-7/24/08]

During the entire performance period of this Contract, the Company shall maintain all federal, state, and local licenses, certifications and registrations applicable to the work performed under this Contract, including maintaining an active City of Las Vegas business license.

D-7 Change Management

The City may from time to time, request such changes and additions to, and/or omissions from, the System as it deems necessary by giving Company notice thereof and Company's acceptance of and performance of each such change, addition and/or omission, and the Purchase Price for any part of the System affected thereby, shall be subject to the agreement of the parties incorporated in a written change order therefor executed by both parties. All Change Orders within the projects budget will be handled by the City's project manager by executed the attached Form A "Change Order Form".

D-8 Acceptance Testing Period

The City will have completed its Acceptance Testing Period prior to Acceptance or final acceptance of the System. The procedure for Acceptance Testing will be as follows:

Upon Company giving City notice of Substantial Completion, City shall inspect the System to determine whether same conforms to the requirements of this Contract in all material respects and will either: (a) accept same by giving the Company notice thereof; or (b) in good faith reject same or any portion thereof by giving Company notice thereof stating with specificity the reasons therefor. The City will notify the Company within fifteen (15) days after having received such notice of Substantial Completion as to whether the City accepts the System. If City so rejects the System or any portion thereof, then Company will diligently work to correct any deficiencies noted and, when such corrections are made, will give City notice thereof. City will have fifteen (15) days from such notice to inspect and either accept or in good faith reject the System in the manner set forth in this Section; if City again so rejects same, then Company will diligently work to correct any deficiencies noted and such process will be repeated until City finally accepts same. The parties acknowledge that the manner of acceptance provided for herein will in no way affect either party's right to seek appropriate relief against the other at law due to City's failure to reasonably and in good faith accept the System or Company's failure to promptly correct any deficiencies noted. The parties acknowledge that the failure, malfunction or late delivery of any City Furnished Equipment or any malfunctions in the System caused by any City Furnished Equipment or work of City or any third party will not be grounds for City's rejection of the System or withholding timely acceptance thereof.

D-9 Final Acceptance

The City upon successful completion of the Acceptance Testing Period shall issue a Final Acceptance notice to the Company.

D-9 Order of Precedence [CAO-7/24/08]

In the event of a conflict between the specific language set forth in Sections B through E of this Contract and any Attachment or Exhibit set forth in Section F, the specific language in Sections B through E shall prevail. Any exception to this order of precedence will be addressed through specific language elsewhere in Sections B through E. If any purchase order, acceptance or other document is used by City in connection with the purchase of the System, then notwithstanding any terms and conditions therein contained to the contrary, the terms and conditions of such documents shall be governed by the terms and conditions of this Contract and any terms and conditions thereof which are inconsistent, different from, or in addition to, the terms and conditions of this Contract shall be null and void and of no force or effect.

SECTION E – General Clauses

E-1 Disputes [CAO-7/25/08] R

- (a) For each claim or dispute arising between the parties under this Contract, the parties shall attempt to resolve the matter through escalating levels of management. In the event the matter cannot be successfully resolved in this manner, the City is granted the right, regardless of which party is asserting the claim or dispute, to determine between arbitration or litigation as the forum in which the party desiring to proceed further shall file to resolve the claim or dispute. For any and all claims or disputes asserted by the Company, the Company shall notify the City of its intent to proceed further with the claim or dispute, and in response thereto, the City shall notify the Company as to its selected forum for resolution. For any and all claims or disputes asserted by the City, the City shall notify the Company in the notice of its intent to proceed with further resolution and in the same notice as to whether it has selected arbitration or litigation as the forum to resolve the claim or dispute. In the event arbitration is the designated forum, such arbitration shall be binding on the parties.
- (b) If arbitration is selected by the City as the forum for further resolution, the claim or dispute shall be filed with JAMS pursuant to its Comprehensive Arbitration Rules and Procedures, regardless of the amount of the claim or dispute.
- (c) The laws of the State of Nevada shall govern this Contract and the venue for purposes of such litigation or arbitration shall be in the City.

E-2 Notice of Delay [CAO-7/24/08] R

- (a) Should the timely performance of this Contract be jeopardized by the non-availability of City provided personnel, data, or equipment, the Company promptly shall notify the City in writing of the facts and circumstances that are contributing to such delay. Upon receipt of this notification, the City will advise the Company in writing of the action which will be taken to remedy the situation. If such non-availability results in additional costs to Company, which Company documents to City, City shall negotiate an equitable adjustment in the project price to compensate Company for such costs.
- (b) The Company shall advise the City in writing of an impending failure to meet established milestones or delivery dates based on the Company's failure to perform. Notice shall be provided as soon as the Company is aware of the situation; however, such notice shall not relieve the Company from any existing obligations regarding performance or delivery, provided, however, if Company's failure to perform, or if Company's performance is delayed, due to any circumstances specified in Paragraph E-4(d) below, then Company shall be entitled to an extension of time for completion of same for a period equivalent to the time lost by reason thereof.
- (c) If a delay in timely performance of this Contract is caused by the Company, except as specified in Paragraph E-4(d) below, then the Company will be expected to recover the schedule at their sole cost, and if Company fails to achieve Substantial Completion by the date set forth in the agreed upon project schedule (the "Substantial Completion Date") and fails to provide suitable and reasonably acceptable "work-around" to enable the City to broadcast City Council Meetings from the New City Hall by the Substantial Completion Date, the City may assess liquidated damages against the Company in the amount of \$500 per day for each

day of the delay until such time as Company either achieves Substantial Completion or provides the City with such broadcast capability.

E-3 Termination for Convenience [CAO-7/24/08]

The City shall have the right at any time to terminate further performance of this Contract, in whole or in part, for any reason whatsoever (including no reason). Such termination shall be effected by written notice from the City to the Company, specifying the extent and effective date of the termination. On the effective date of the termination, the Company shall terminate all work and take all reasonable actions to mitigate expenses. The Company shall submit a written request for incurred costs for services performed through the date of termination, as well as costs incurred in terminating this Contract (e.g., equipment return, third party re-stocking or cancellation charges, subcontractor termination charges, etc.) and shall provide any substantiating documentation requested by the City. In the event of such termination, the City agrees to pay the Company within 30 days after receipt of a correct, adequately documented written request. The City's sole liability under this Paragraph is for payment of the costs for the services requested by the City and actually performed by the Company, including payment for Equipment and other Deliverable furnished up to the time of termination, and Company's costs of termination.

E-4 Termination for Default [CAO-11/9/09]

- (a) Subject to sub-clause (b) below, the City may, by written notice of default to the Company, terminate this Contract in whole or in part if the Company fails to:
- (i) Perform the services under Section C (Statement of Work), including, if applicable, delivering any required software, goods, or documentation within the time specified in this Contract or any extension;
 - (ii) Make progress so as to materially jeopardize timely performance of this Contract; or
 - (iii) Perform any of the other material provisions of this Contract.
- (b) The City's right to terminate this Contract under (a)(i), (a)(ii) and (a)(iii) above, may be exercised only if the Company does not cure such failure within ten business days (or more if authorized by the City) after notice, specifying the failure, is provided pursuant to the Paragraph D-1 (Legal Notice) of this Contract.
- (c) If the City terminates this Contract for default in whole or in part, it may acquire, under reasonable terms and in the manner the City considers appropriate, services or goods comparable to those terminated, and the Company shall be liable to the City for any excess costs for those services or goods, subject to Section E-23 hereof. However, the Company shall continue the work not terminated.
- (d) The Company shall not be liable for any excess costs or delays in performance if the failure to perform the Contract arises from circumstances beyond the control and without the fault or negligence of the Company. These circumstances include, but are not limited to, such causes as (1) acts of God or of the public enemy, (2) acts of governmental bodies, (3) fires, (4) floods, (5) epidemics, (6) quarantine restrictions, (7) labor strikes, (8) freight embargoes, (9) unusually severe weather, or (10) failure of City to have the project site ready, or failure of the City to complete any of its other responsibilities, at the times agreed upon by the parties. The time of performance of the Company's obligations under this Contract shall be extended by such period of enforced delay and the Company shall be entitled to an equitable adjustment in the project price if it incurs additional costs for delays caused by City; provided, however, that such reasonably extended time period shall not exceed 60 days. If the foregoing circumstances result in a delay greater than 60 days, the City may terminate the affected portion of the Contract pursuant to the terms of Paragraph E-3 (Termination for Convenience).
- (e) Either party may terminate this Contract, in whole or in part, if the other party becomes insolvent or bankrupt or makes an assignment for the benefit of creditors, or if a receiver or trustee in bankruptcy is appointed for the other party, or if any proceeding in bankruptcy, receivership, or liquidation is instituted against the other party and is not dismissed within 30 days following commencement thereof.
- (f) The City retains the right to terminate for default immediately should the Company fail to maintain the required levels of insurance, fail to comply with applicable local, state, and Federal statutes governing performance of these services, or fail to comply with statutes involving health or safety.

- (g) In the event that the City fails to perform any of its obligations required under this Contract, and the City does not remedy the failure within fifteen (15) calendar days after notice thereof is provided to the City by the Company pursuant to Paragraph E-1 "Legal Notice" above, the Company shall have the right to stop further performance and terminate this Contract, provided, however, that in the event of a good faith dispute between the parties as to whether the City has good cause to delay or withhold its performance, the Company shall have the right to treat the failure as a claim or dispute subject to the resolution provisions of Section E-1 "Disputes" of this Contract. During the period of such resolution the Company shall continue with its performance under the Contract.

E-5 Insurance:[CAO-1/12/09] R

- (a) **The Company** shall procure and maintain, at its own expense, during the entire term of the Contract, the following coverage(s):

- (i) Industrial/Workers' Compensation Insurance protecting the Company and the City from potential Company employee claims based upon job-related sickness, injury, or accident, during performance of this Contract, and must submit proof of such insurance on a certificate of insurance issued by an insurer qualified to underwrite workers' compensation insurance in the State of Nevada, in accordance with NRS 616A-616D, inclusive.
- (ii) Commercial General Liability Insurance (bodily injury, property damage) with respect to the Company's agents assigned to the activities performed under this Contract in a policy limit of not less than \$1,000,000.00 per occurrence and \$2,000,000.00 in the aggregate, for bodily injury (including death), personal injury and property damages. Such coverage shall be on an "occurrence" basis and not on a "claims made" basis, and be provided on either a Commercial General Liability or a Broad Form Comprehensive General Liability (including a Broad form CGL endorsement) insurance form.
- (iii) Commercial Automobile Liability Insurance of limits no less than \$1,000,000 combined single limit per occurrence for bodily injury and property damage to include, but not be limited to, coverage against all insurance claims for injuries to persons or damages to property which may arise from services rendered by Company and any auto used to the performance of services under this Contract. The policy must insure all vehicles **owned** by the Company and include coverage for **hired** and **non-owned** vehicles. If the services requested do not require the use of vehicle to perform, Commercial Automobile Liability Insurance requirements, as described in (iii) above, do not apply.

- (b) Company must provide required insurance documentation to Insurance Tracking Services (ITS) promptly after execution of this Contract by both parties. All required aggregate limits must be disclosed and amounts entered on the certificate(s) of insurance. The certificates must identify the Contract number and the Contract description. The Company shall maintain coverage for the duration of this Contract, and any renewal periods, if applicable. The Company shall annually provide the ITS with a certificate of insurance as evidence that all insurance requirements have been met. The Company and/or insurance carrier shall endeavor to provide the City with a 30 day advance notice of policy modification, cancellation or erosion of insurance limits. .

Submit certificates of insurance to:

City of Las Vegas
C/O Insurance Tracking Services, Inc. (ITS)
P.O. Box 21919
Long Beach, CA 90801

Account Manager: Michael Palacios
Phone: (888) 435-2955 ext. 503 • Fax: 562-435-2999
Email: michael.palacios@instracking.com

- (c) The City, its officers and employees shall be named as additional insureds and such notation shall appear on the certificate of insurance furnished by the Company's insurance carrier. Each insurance carrier's rating as shown in the latest Best's Key Rating Guide shall be fully disclosed and entered on the required certificate of insurance. The City requires insurance carriers to maintain a Best's Key rating of A VII, or higher.
- (d) All deductibles and self-insurance retentions shall be fully disclosed in the certificate of insurance. No deductible or self-insured retention may exceed \$500,000.00 without the prior written approval of the City.
- (e) If the Company fails to carry the required insurance, the City may (i) order the Company to stop further performance hereunder, declare the Company in breach, pursuant to Paragraph E-4, terminate the Contract if the breach is not remedied and, if permitted, assess liquidated damages, or (ii) purchase replacement insurance and withhold the costs or premium payments made from the payments due to the Company or charge the replacement insurance costs back to the Company.
- (f) Any subcontractor or subconsultant approved by the City shall be required to procure, maintain and submit proof of insurance to the City of the same insurance requirements as specified above, and as required in this paragraph.
- (g) The Company is encouraged to purchase any additional insurance as it deems necessary.
- (h) The Company is required to remedy all injuries to persons and damage or loss to any property of the City, caused in whole or in part by the Company, its subcontractors or anyone employed, directed or supervised by the Company.
- (i) The policies required in E-5 (a) i-iii shall have a Waiver of Subrogation provision endorsement in favor of the City of Las Vegas.

E-6 Indemnification [CAO-7/24/08] R

- (a) In addition to the insurance requirements set forth in Paragraph E-5 (Insurance), the Company shall protect, indemnify and hold harmless the City, its officers, employees, agents, and consultants (collectively herein the "City") harmless from any and all claims, liabilities, damages, losses, suits, actions, decrees, and judgments including, attorney's fees, court costs or other expenses of any and every kind or character (collectively herein the "Liabilities") which may be recovered from the City, as a result of any death, bodily injury or tangible property damage proximately caused by the negligence, willful misconduct or strict liability of the Company, its officers, employees, or agents in the performance of the terms, conditions and covenants of the Contract, provided that the City provides the Company with timely notice of any claim for which indemnification may apply and the Company is given full authority to defend or settle the claim using attorneys of its choosing.
- (b) It is expressly agreed that the Company shall defend the City against the Liabilities and in the event that the Company fails to do so, the City shall have the right, but not the obligation, to defend the same and to charge all direct and incidental costs, including attorney's fees and court costs, to the Company.

E-7 Assignment [CAO-7/24/08] R

Neither party may assign their rights nor delegate their duties under this Contract without the written consent of the other party. Such consent shall not be withheld unreasonably. Any assignment or delegation shall not relieve any party of its obligations under this Contract. Notwithstanding the foregoing, City acknowledges that Company may subcontract its obligations under this Contract to any third party provided that Company remains primarily liable to City for such obligations.

E-8 Waiver [CAO-7/24/08]

Waiver of any of the terms of this Contract shall not be valid unless it is in writing signed by each party. The failure of a party to enforce any of the provisions of this Contract, or to require performance of any of the provisions herein, shall not in any way be construed as a waiver of such provisions or to affect the validity of any part of this Contract, or to affect the right of such party to thereafter enforce each and every provision of this Contract. Waiver of any breach of this Contract shall not be held to be a waiver of any other or subsequent breach of this Contract.

E-9 Taxes/Compliance with Laws [CAO-7/24/08]

- (a) The City is exempt from paying Sales and Use Taxes under the provisions of Nevada Revised Statutes 372.325(4), and Federal Excise Tax, under Registry Number 88-87-0003k. The Company shall pay all taxes, levies, duties and assessments of every nature and kind, which may be applicable to any work under this Contract. The Company shall make any and all payroll deductions required by law. The Company agrees to indemnify and hold the City harmless from any liability on account of any and all such taxes, levies, duties, assessments and deductions.
- (b) The Company in the performance of the obligations of this Contract shall comply with all applicable laws, rules and regulations of all governmental authorities having jurisdiction over the performance of this Contract including, but not limited to, the Federal Occupational Health and Safety Act, and all state and federal laws prohibiting and/or relating to discrimination by reason of race, sex, age, religion or national origin.

E-10 Audit of Records [CAO-8/5/08] R

- (a) The Company agrees to maintain the financial books and records (including supporting documentation) pertaining to the performance of this Contract according to standard accounting principles and procedures. The books and records shall be maintained for a period of three (3) years after completion of this Contract, except that books and records which are the subject of an audit finding shall be retained for three (3) years after such finding has been resolved. If the Company goes out of business, the Company shall forward the books and records pertaining to this Contract to the City to be retained by the City for the period of time required herein.
- (b) The City, or its designated representative(s), shall have the right to inspect and audit (including the right to copy and/or transcribe) the books and records of the Company pertaining to the performance of this Contract during normal business hours. The City will provide prior written notice to the Company of the audit and inspection. If the books and records are not located within Clark County, the Company agrees to deliver them to the City, or to the address, designated by the City, within Clark County. In lieu of such delivery, the Company may elect to reimburse the City for the cost of travel (including transportation, lodging, meals and other related expenses) to inspect and audit the books and records at the Company's office. If the books and records provided to the City are incomplete, the Company agrees to remedy the deficiency after written notice thereof from the City, and to reimburse the City for any additional costs associated therewith including, without limitation, having to revisit the Company's office. The Company's failure to remedy the deficiency shall constitute a material breach of this Contract. The City shall be entitled to its costs and reasonable attorney fees in enforcing the provisions of this Paragraph
- (c) If, at any time during the term of this Contract, or at any time after the expiration or termination of the Contract, the City or the City's designated representative(s) finds the dollar liability is less than payments made by the City to the Company, the Company agrees that the difference shall be either: (a) repaid immediately by the Company to the City or (b) at the City's option, credited against any future billings due the Company.

E-11 Independent Contractor [CAO-7/24/08]

In the performance of services under this Contract, the Company and any other person employed by it shall be deemed to be an independent contractor and not an agent or employee of the City. The Company shall be liable for the actions of any person, organization or corporations with which it subcontracts to fulfill this Contract. The City shall hold the Company as the sole responsible party for the performance of this Contract. The Company shall maintain complete control over its employees and all of its subcontractors. Nothing contained in this contract or any subcontract awarded by the Company shall create a partnership, joint venture or agency with the City. Neither party shall have the right to obligate or bind the other party in any manner to any third party.

E-12 Severability [CAO-7/24/08]

The invalidity, illegality, or unenforceability of any provision of this Contract or the occurrence of any event rendering any portion or provision of this Contract void shall in no way affect the validity or enforceability of any other portion or provision of this Contract. Any void provision shall be deemed severed from this Contract, and the balance of this Contract shall be construed and enforced as if this Contract did not contain the particular portion or provision held to be void. The parties further agree to amend this Contract to replace any stricken provision with a valid provision that comes as close as possible to the intent of the stricken provision. The

provisions of this clause shall not prevent this entire Contract from being void should a provision which is of the essence of this Contract be determined void.

E-13 Conforming Services [CAO-7/24/08]

The services performed under this Contract shall conform in all respects with the requirements set forth in this Contract. The Company shall furnish the City with sufficient data and information needed to determine if the services performed conform to all the requirements of this Contract.

E-14 Modification/Amendment [CAO-7/24/08]

This Contract shall not be modified or amended except by the express written agreement of the parties, signed by a duly authorized representative for each party. Any other attempt to modify or amend this Contract shall be null and void, and may not be relied upon by either party.

E-15 Entire Contract, Section and Paragraph Headings [CAO-7/24/08]

- (a) This Contract represents the entire and integrated agreement between the City and the Company. It supersedes all prior and contemporaneous communications, representations, and agreements, whether oral or written, relating to the subject matter of this Contract.
- (b) The section and paragraph headings appearing in this Contract are inserted for the purpose of convenience and ready reference. They do not purport to define, limit or extend the scope or intent of the language of the sections and paragraphs to which they pertain.

E-16 Conflict of Interest (City Officials) [CAO-7/24/08]

- (a) An official of the City, who is authorized in such capacity and on behalf of the City to negotiate, make, accept or approve, or take part in negotiating, making, accepting, or approving this Contract, payments under this Contract, or work under this Contract, shall not be directly or indirectly interested personally in this Contract or in any part hereof. No officer, employee, architect, attorney, engineer or inspector of, or for the City, who is authorized in such capacity and on behalf of the City to exercise any legislative, executive, supervisory or other similar functions in connection with this Contract, shall become directly or indirectly interested personally in this Contract or in any part hereof, any material supply contract, subcontract, insurance contract, or any other contract pertaining to this Contract.
- (b) Each party represents that it is unaware of any financial or economic interest of any public officer or employee of the City relating to this Contract. Notwithstanding any other provision of this Contract, if such interest becomes known, the City may immediately terminate this Contract for default or convenience, based on the culpability of the parties.

E-17 Public Records [CAO-7/24/08]

The City is a public agency as defined by state law. As such, it is subject to the Nevada Public Records Law (Chapter 239 of the Nevada Revised Statutes). The City's Records are public records, which are subject to inspection and copying by any person (unless declared by law to be confidential). This Contract, all supporting documents, and proposals submitted under the original Request for Proposal are deemed to be public records.

E-18 Confidentiality – City Information [CAO-7/24/08] R

- (a) All information, including but not limited to, oral statements, computer files, databases, and other material or data supplied to the Company is confidential and privileged. The Company shall not disclose this information, nor allow to be disclosed to any person or entity, except Company's contractors who are likewise covered by written confidentiality obligations, without the express prior written consent of the City. The Company and its contractors shall have the right to use any such confidential information only for the purpose of providing the services under this Contract, unless the express prior, written consent of the City is obtained. Upon request by the City, The Company shall promptly return to the City all confidential information supplied by the City, together with all copies and extracts. Similarly, all information provided by Company which is marked confidential or proprietary, except for information which constitutes public records under the Nevada Public Records Law, shall be kept confidential and not disclosed to any person or entity other than in connection with City's use of the System.

- (b) The confidentiality requirements shall not apply where (i) the information is, at the time of disclosure by the disclosing party, then in the public domain; (ii) the information is known to the receiving party prior to obtaining the same from the disclosing party; (iii) the information is obtained by the receiving party from a third party who did not receive the same directly or indirectly from the disclosing party; or (iv) the information is subpoenaed by court order or other legal process, but in such event, the receiving party shall notify the disclosing party. In such event the disclosing party, in its sole discretion, may seek to quash such demand.
- (c) The obligations of confidentiality shall survive the termination of this Contract.

E-19 Marketing Restrictions [CAO-7/24/08]

The Company may not publish or sell any information from or about this Contract without the prior written consent of the City. This restriction does not apply to the use of the City's name in a general list of customers, so long as the list does not represent an express or implied endorsement of the Company or its services.

E-20 Limitation of Funding [CAO-7/24/08] R

The City reserves the right to reduce estimated or actual quantities, in whatever amount necessary, without prejudice or liability to the City, if funding is not available or if legal restrictions are placed upon the expenditure of monies for the services required under this Contract. In such event, the scope of this Contract shall be reduced accordingly.

E-21 Changes – Fixed-Price Services [CAO-7/24/08] R

- (a) The City may at any time, by written order, and without notice to the sureties, if any, make changes within the general scope of this Contract in any one or more of the following:
 - (i) Description of services to be performed.
 - (ii) Time of performance (i.e., hours of the day, days of the week, etc.).
 - (iii) Place of performance of the services.
- (b) If any such change causes an increase or decrease in the cost of, or the time required for, performance of any part of the work under this Contract, whether or not changed by the order, the City shall make an equitable adjustment in the Contract price, the delivery schedule, or both, and shall modify the Contract.
- (c) The Company must assert its right to an adjustment under this clause within 30 days from the date of receipt of the written order; however, if the City decides that the facts justify, the City may receive and act upon a proposal submitted before final payment of the Contract.
- (d) If the Company's proposal includes the cost of property made obsolete or excess by the change, the City shall have the right to prescribe a commercially reasonable method for the disposition of the property.
- (e) Failure to agree to any adjustment shall be a dispute under Paragraph E-1 "Disputes"; however, nothing in this clause shall excuse the Company from proceeding with the Contract as changed.

The Company shall provide current, complete, and accurate documentation to the City in support of any equitable adjustment. Failure to provide adequate documentation, within a reasonable time after a request from the City, will be deemed a waiver of the Company's right to dispute the equitable adjustment proposed by the City, where such equitable adjustment has a reasonable basis at the time it is determined by the City.

E-22 Patent and Copyright Indemnity

- (a) Company shall, at its own expense, defend and indemnify City from and against any award of damages and costs (including reasonable attorneys' fees and costs) by a court of last resort insofar as such award of damages and costs is based on a final determination that any equipment and/or software manufactured by Company or bearing Company's name or logo (the "Sony Products") as and when furnished by Company to City hereunder directly infringed any patent, trademark or copyright of the United States. Indemnification of costs hereunder will extend only to actual costs assessed. This indemnification will not apply to any item of equipment or software made or modified by Company in accordance with City's specifications if such modification causes an infringement of a patent or copyright of the United States.

(c) Company's obligation to defend and indemnify City hereunder will be conditioned on the following: (i) City gives Company prompt notice of such claim but in no event later than fifteen (15) days after City has received notice thereof; (ii) Company has sole control of the defense of any action on such claim or suit and all negotiations for its settlement or compromise; (iii) City fully cooperates with Company in the defense of any action on such claim of direct infringement and all related settlement negotiations; and/or (iv) should any of the Sony Products become, or in Company's opinion be likely to become, the subject of a claim of infringement, City permits Company, at its own expense, (1) to procure for City the right to continue using affected Sony Products; (2) to replace or to modify same so that affected Sony Products become non-infringing; or, (3) remove affected Sony Products, refund the monies paid to the Company under this Contract therefor, and pay the costs of removal and transportation back to Company.

(d) Notwithstanding any other term or condition contained herein to the contrary, Company shall have no liability to City if any such claim or suit is based upon or arises out of: (i) alterations to Sony Products by City or any third party; (ii) failure of City to use updated Sony Products provided by Company for avoiding infringement; (iii) use of Sony Products in combination with non-Sony Products not specified by Sony in writing as being usable therewith; (iv) patented processes or methods allegedly performed by Sony Products; (v) use of Sony Products in a manner for which same were neither designed nor contemplated; or, (vi) a patent or copyright in which City or any of its affiliates or subsidiaries has direct or indirect interest by license or otherwise.

(e) THE WARRANTY SET FORTH ABOVE IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, WITH REGARD TO ANY CLAIM OF INFRINGEMENT BY EQUIPMENT, SOFTWARE AND/OR THE SYSTEM. ANY WARRANTY AGAINST INFRINGEMENT THAT MAY BE PROVIDED IN SECTION 2-312(3) OF THE UNIFORM COMMERCIAL CODE AND/OR IN ANY OTHER COMPARABLE STATE OR FOREIGN STATUTE IS EXPRESSLY DISCLAIMED.

(f) The terms and conditions hereof state the entire liability of Company for any claim or suit arising from, or based upon, patent, trademark, or copyright infringement concerning the Equipment, the Software and/or the System and/or any part thereof.

(g) With respect to any items of Equipment and/or Software which are not Sony Products, Company shall, to the extent it is permitted to do so, assign to City any indemnities it receives from the manufacturer and supplier(s) thereof with respect to infringement.

E-23 Limitation of Liability

THE LIABILITY OF COMPANY, IF ANY, AND CITY'S SOLE AND EXCLUSIVE REMEDY FOR DAMAGES FOR ANY CLAIM OF ANY KIND WHATSOEVER, REGARDLESS OF LEGAL THEORY, SHALL NOT BE GREATER THAN 125% OF THE ACTUAL AMOUNTS PAID HEREUNDER.

IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES OF ANY KIND. SUCH DAMAGES INCLUDE, BUT ARE NOT LIMITED TO, COMPENSATION, REIMBURSEMENT OR DAMAGES ON ACCOUNT OF PRESENT OR PROSPECTIVE PROFITS (EXCEPT FOR COMPANY'S PROFITS FOR WORK PERFORMED AND EQUIPMENT AND SOFTWARE FURNISHED), EXPENDITURES, INVESTMENTS OR COMMITMENTS, WHETHER MADE IN THE ESTABLISHMENT, DEVELOPMENT OR MAINTENANCE OF BUSINESS REPUTATION OR GOODWILL, OR FOR ANY OTHER REASON WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, THE CLAIMS OF ANY THIRD PARTIES.

This Section shall not limit Company's indemnification obligations under Section E-6 hereof.

E-24 Counterpart Signatures [CAO-9/24/08]

This Contract may be executed in counterparts, all such counterparts will constitute the same contract and the signature of any party to any counterpart will be deemed a signature to, and may be appended to, any other counterpart. Executed copies hereof may be delivered by facsimile or e-mail and upon receipt will be deemed originals and binding upon the parties hereto, regardless of whether originals are delivered thereafter.

SECTION F – List of Attachments/Exhibits

The following attachments are hereby incorporated into this contract:

<u>Identifier</u>	<u>Title/Text Reference</u>	<u>Date</u>
Attachment 1	Disclosure of Ownership	
Attachment 2	Sony Preliminary Work Plan	September 21, 2011
Attachment 3	Sony Preliminary System Technical Description	September 21, 2011
Exhibit A	Prevailing Wage	Oct 2010-Sept 2011
Exhibit B	City Provided Existing Equipment List	September 21, 2011
Exhibit C	City Provided Council Chamber Lights	September 21, 2011
Exhibit D	Project Schedule Detail	October 3, 2011
Exhibit E	Sony Limited Product Warranty	September 21, 2011
Exhibit F	City Provided Cable Connector and Labeling	September 21, 2011
Form A	Change Order	September 21, 2011

IN WITNESS WHEREOF, the parties hereto have caused this Contract to be executed by their duly authorized representatives.

CITY OF LAS VEGAS

KATHLEEN C. RAINEY, Manager
Purchasing and Contracts

"City"

ATTEST:

BEVERLY K. BRIDGES, MMC
City Clerk

APPROVED AS TO FORM:

Robert S. Sylvain
Deputy City Attorney

10-10-11
Date

SONY ELECTRONICS INC.

STEVE SUBELT, Director of Systems Solutions
"Company"

ATTACHMENT 1 - CERTIFICATE - DISCLOSURE OF OWNERSHIP/PRINCIPALS
(FOR CONSULTING SERVICES ONLY)

1. Definitions

"City" means the City of Las Vegas.

"City Council" means the governing body of the City of Las Vegas.

"Contracting Entity," means the individual, partnership, or corporation seeking to enter into a contract or agreement with the City of Las Vegas.

"Principal" means, for each type of business organization, the following: (a) sole proprietorship – the owner of the business; (b) corporation – the directors and officers of the corporation; but not any branch managers of offices which are a part of the corporation; (c) partnership – the general partner and limited partners; (d) limited liability company – the managing member as well as all the other members; (e) trust – the trustee and beneficiaries.

2. Policy

In accordance with Resolution 79-99 and 105-99 adopted by the City Council, Contracting Entities seeking to enter into certain contracts or agreements with the City of Las Vegas must disclose information regarding ownership interests and principals. Such disclosure generally is required in conjunction with a Request for Proposals (RFP). In other cases, such disclosure must be made prior to the execution of a contract or agreement.

3. Instructions

The disclosure required by the Resolutions referenced above shall be made through the completion and execution of this Certificate. The Contracting Entity shall complete Block 1, Block 2, and Block 3. The Contracting entity shall complete either Block 4 or its alternate in Block 5. Specific information, which must be provided, is highlighted. An Officer or other official authorized to contractually bind the Contracting Entity shall sign and date the Certificate, and such signing shall be notarized.

4. Incorporation

This Certificate shall be incorporated into the resulting contract or agreement, if any, between the City and the Contracting entity. Upon execution of such contract or agreement, the Contracting Entity is under a continuing obligation to notify the City in writing of any material changes to the information in this Certificate. This notification shall be made within fifteen (15) days of the change. Failure to notify the City of any material change may result, at the option of the City, in a default termination (in whole or in part) of the contract or agreement, and/or a withholding of payments due the Contracting Entity.

Block 1 Contracting Entity	Block 2 Description
Name Sony Electronics Inc.	Project Management and Integration Services for KCLV
Address 1 Sony Drive Park Ridge, New Jersey 07656	Services for the Project Management and Integration Services for KCLV
Telephone 201-930-1000	
EIN or DUNS 22-2878067	RFP# 110106-TB

Block 3 Type of Business
☐ Individual ☐ Partnership ☐ Limited Liability Company ☒ Corporation ☐ Trust ☐ Other:

**CERTIFICATE – DISCLOSURE OF OWNERSHIP/PRINCIPALS
(CONTINUED)**

Block 4 Disclosure of Ownership and Principals

In the space below, the Contracting Entity must disclose all principals (including partners) of the Contracting Entity, as well as persons or entities holding more than one-percent (1%) ownership interest in the Contracting Entity.

	FULL NAME/TITLE	BUSINESS ADDRESS	BUSINESS PHONE
1.	Sony Corporation of America	550 Madison Avenue New York, N.Y. 10022	212- 833-6800
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

The Contracting Entity shall continue the above list on a sheet of paper entitled "Disclosure of Ownership/Principals – Continuation" until full and complete disclosure is made. If continuation sheets are attached, please indicate the number of sheets: _____

Block 5 Disclosure of Ownership and Principals – Alternate

If the Contracting Entity, or its principals or partners, are required to provide disclosure (of persons or entities holding an ownership interest) under federal law (such as disclosure required by the Securities and Exchange Commission or the Employee Retirement Income Act), a copy of such disclosure may be attached to this Certificate in lieu of providing the information set forth in Block 4 above. A description of such disclosure documents must be included below.

Name of Attached Document: _____

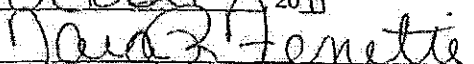
Date of Attached Document: _____ Number of Pages: _____

I certify under penalty of perjury, that all the information provided in this Certificate is current, complete and accurate. I further certify that I am an individual authorized to contractually bind the above named Contracting Entity.


 Name: Toshiniko Ohnishi

Date: October 10, 2011

Subscribed and sworn to before me this 10 day of

October 2011


TARA R. FERRETTI
Notary Public

NOTARY PUBLIC OF NEW JERSEY
My Commission Expires 11/20/2014

Attachment 2 - Sony Preliminary Work Plan – Sept. 21, 2011

1.1 Scope of Work

The proposed project scope encompasses several activities which will require close coordination among the project team members and stakeholders. As the proposed Prime Contractor, the Sony Project Office will assign a Project Manager to work with you and your technical and business representatives towards the successful administration of the project. The Sony Project Manager will also work with any subcontractor Project Managers and project team members throughout the project lifecycle and the turnover to post-installation support to provide guidance, maintain effective control, and ensure a successful deployment that meets all of the project objectives.

The design, integration, prefabrication and assembly of the system shall be completed at the site as specified in the RFP. Cable fabrication and preassembly of the system shall occur at Sony's designated integration Channel Partner's facility to the extent practical. On completion of the on-site installation, KCLV representatives would be invited to participate in the System Acceptance Test (SAT).

System training would occur immediately after the SAT, or at a time mutually agreeable to KCLV and Sony.

1.1.1 Scope of Work - General

As a baseline for the purpose of this proposal Sony has assumed the following general scope of work to be under Sony's responsibility. The system design, integration, and installation tasks will be assigned to the selected systems integrator, as subcontractor to Sony. As the Project Prime contractor Sony shall be responsible for the following areas:

- Production Control Room
- Master Control Room
- Studio
- Audio Control
- Equipment Room
- Edit Rooms
- Truck Garage
- Maintenance shop
- Camera Storage
- Tape Storage
- Viewing Room
- Rooftop Antennas & Camera wiring
- Satellite Antennas Equipment Room
- Council Chambers
- Council Chambers Control Room
- Interior & Exterior of Lobby
- Reception
- Mayor's Conference Room
- Curbside Media Truck Area
- Communication Distribution Room
- Breakroom

Sony's responsibility shall include:

- a) Assign a Project Manager to administer the project, coordinate Sony and subcontractor activities, and provide a single point of contact to client throughout all phases of the project.
- b) Develop the detailed project plan and project schedule.
- c) Manage any change requests and change orders.
- d) Conduct project status meetings, and provide detailed and summary status reports.
- e) Develop preliminary system designs to meet the technical, workflow and business requirements and submit the preliminary design package to the City of Las Vegas and KCLV for review.
- f) Update the preliminary design, and develop the detailed shop drawings including interconnection diagrams, rack elevations, connector details, technical equipment lists, and cable-run list as required to accurately assemble the TV Studio, Council Chambers and OB Trailer systems.
- g) Evaluate existing purchaser furnished equipment for proper operation and suitability for integration with the new Television Studio and OB Production Trailer.
- h) Transport purchaser furnished equipment from the existing facilities to the new City Hall and OB Trailer integration sites.
- i) Procure all system equipment and materials.
- j) Receive and control the inventory of procured and customer furnished equipment, parts and materials.
- k) As specified in RFP 110106-TB Exhibit C, Item 1, any pre-assemble shall be performed on-site at the new facility.
- l) Verify with the KCLV Project Manager and City Hall Project Manager the appropriate provisioning of conduit, cable trays or pathways by the general contractor.
- m) Verify the City Hall plans provide sufficient and dedicated infrastructure (electrical, mechanical, space and structure) to support the proposed system architecture.
- n) Provide all broadcast and production operation design, including signal flow, media workflow and any subcontractor designs referenced in the RFP.
- o) Recommend a new HD house Codec for all workflows.
- p) Provide Apple certified engineering design services for integration and commissioning of the Apple edit and SAN system.
- q) Provide TV production lighting design services and install TV production lighting systems in the Television Studio and Council Chambers. Coordinate installation of the lighting systems with City Hall developer, Forest City.
- r) Provide custom input/output panels per RFP Exhibit A, Item h, (ii)
- s) Install wiring for one (1) all-weather HD PTZ camera on the City Hall roof. Camera to be procured in the future.
- t) Install and commission two (2) new satellite antenna systems and relocate one (1) existing KCLV satellite antenna systems to the roof of the new City Hall.

- u) Design data storage and data archive system with tiered storage to include existing tape backup system/software. The storage system shall be fully compatible with the KCLV FCP server systems.
- v) Verify City Hall facility power and UPS systems are adequate to support the new television system equipment with standalone UPS systems for the critical on-air servers and associated equipment.
- w) Relocate existing green screen/chroma key set and reconfigure for use as a full wall set in the new studio.
- x) Design and install a multi-channel broadcast intercom system with wired and wireless user stations.
- y) Install all fiber and copper cable required for the television studio, edit systems, satellite and microwave systems and truck dock utilizing the general contractor provided conduit and cable tray systems.
- z) Install curbside ENG/EFP I/O panels truck area in front of City Hall to support local media affiliates.
- aa) Relocate existing master GPS clock antenna to the City Hall roof.
- bb) Design for 24/7 operation as specified in RFP Exhibit A, item (xvi).
- cc) Fabricate and install intra-rack and inter-rack cables according to the detailed design and in accordance with industry best practice standards.
- dd) Install the equipment into the equipment racks.
- ee) Install the system consoles and install the equipment control panels as required.
- ff) On completion of the on-site system installation, perform a system acceptance test and demonstrate the functionality of the system.
- gg) Provide operational training on the system and its key functional components.
- hh) Provide the as-built documentation package, including CAD system diagrams, technical equipment list, wire list, connector details and configuration documents.
- ii) Provide indexed and filed manuals and documentation as supplied by the original equipment manufacturers.

Client Responsibilities

The following scope of work shall be under the City of Las Vegas/KCLV responsibility:

- a) Assign a single point of contact and technical representative, responsible for coordinating activities and approving any work in progress.
- b) Review designs in progress as submitted, and provide timely design input and approval.
- c) Provide interface, configuration and any other documentation or information required for the integration of all purchaser furnished equipment.
- d) Provide all mounting and installation hardware and accessories for purchaser furnished equipment to be repurposed in the new Studio or OB Production Trailer.
- e) Provide adequate on-site secure work space with access to telephone and Internet connections.
- f) Provide adequate environmentally controlled space for installation of the system technical equipment, racks and consoles.

- g) Provide adequate technical power, ground and UPS to support the power requirements of the system.
- h) Provide, or arrange for installation of cable trays, conduit and other cable management systems as required supporting the system cable requirements.
- i) Provide personnel to attend the system acceptance test and subsequent technical and operations training.
- j) The technical space shall be clean and free of dust and debris prior to commencement of the on-site installation. The HVAC system shall be operational and purged to prevent dust contamination of the equipment.
- k) KCLV shall provide secure weather-protected temporary storage space for both the purchaser furnished equipment and the new equipment and materials provided by Sony during the installation phase of the project.

1.2 Satellite Antenna Systems Project Scope

USSI will allocate the necessary resources to perform the installation and relocation requirements for this project. We will relocate one (1) existing 3.7M downlink dishes and a microwave antenna from the existing location to the roof of the new City Hall building in Las Vegas, NV. USSI will install two runs of up to 250 feet of IFL cabling from the antennas to the indoor equipment. A Hoffman box with 13 POS Terminal Block for antenna control will be installed after the antenna installation has been completed.

USSI will procure and install one (1) 3.7M motorized 2-port C/Ku-Band RO antennas and either a 4.9M C-band GPS antenna or a 3.7M Ku-Band antenna (customer will choose) at the same rooftop location. These antenna installations also include the associated electronics and IFL cabling. Each antenna system will be configured in accordance with the customer specifications. Upon completion of this phase of the project, the antenna systems will be fully installed and tested, and ready for integration with a system rack. This reflects a system solution approach and includes all professional services, installation, test and commissioning of the antennas.

The USSI services model is unparalleled in the industry. Our directly employed Field Engineers are always on call to meet critical response times for your network. Professional, courteous and experienced, they have successfully installed, maintained, and supported large network deployments for over 25 years. As shown below, USSI also has a vast network of over 450 contracted partners which equates to a work force of over 2,000 technicians strategically placed across the United States.

Satellite Systems Installation Assumptions

- Non-Union Labor
- Site access during normal working hours 8-5
- Conduit and/or cable trays, and roof penetrations are provided
- Equipment racks are provided
- IFL is not over 200' for newly installed antennas
- Rooftop riser/steel is designed to accommodate antennas

- Rooftop permits are provided for antennas
- Crane access next to the building
- Site is responsible for 208 three phase power to antenna
- Assumes Following transmit for 3.7M Ku-band antenna option
 - ✓ Uplink earth station Las Vegas
 - ✓ Downlink earth station Las Vegas
 - ✓ Satellite AMC 1
 - ✓ Antenna Size 3.7M with 100W SSPA to transmit DVB-S2 8-PSK (5/6) Symbol rate 30 Mbaud
- IFL is not over 250' for relocated 3.7M antennas and microwave antenna
- - ✓ Assumes following transmit for 4.9M C-band antenna option
 - ✓ Uplink earth station Las Vegas
 - ✓ Downlink earth station Las Vegas
 - ✓ Satellite AMC 1
 - ✓ Antenna Size 4.9M
 - ✓ 200W SSPA to transmit DVB-S2 8-PSK (5/6) Symbol rate 17 Mbaud

1.2.1 3.7M RO Antennas

- Motorized 3.7 meter DH satellite antenna with prime focus 1 piece ALUMINUM reflector. Antenna includes polar mount with motorized declination (DUAL AXIS 2-motor) peaking on desired satellites. The mount attaches to a 5.5" OD pipe extending 6 ft. above the surface.
- Motorized Feed horn, C & Ku band 2-port ea
- Actuator & motor, 36" ball screw ea, Linear 36 inch actuator arm and motor, ball screw, slip clutch, commercial grade, 1500lb thrust w-boot.
- LNB, C Band 20 Degree ± 05 , C band LNB with ± 5 KHz BEST STABILITY (PLL), for optimum performance with HD digital sat receivers, 950-1750Mhz out • 1dB gain compression +10dBm
- LNB, Ku Band .6dB, ± 5 KHz, Ku band LNB with ± 5 KHz BEST STABILITY (PLL), for optimum performance with HD digital sat receivers, 950-1450Mhz out • 1dB gain compression +10dBm
- RCI 2000A Controller for satellite antenna, Rack mounted controller to Auto-aim one Dual-Axis sat dish, w-RS422 port, and 36vdc power output to two motors
- Quintech dual 4-Way Active Splitter With Dual Redundancy (950-2150 MHz)
- ADC 24 PORT BNC HD Normalizing Patch Panel (L-Band downlink patch panel)
- Cable, 15 conductor for sat antenna, for DC power & sensor on 2-motor sat antenna
- Cable/connectors Belden RG6 Indoor
- Cable/connectors Belden RG6 Outdoor
- Cable/connectors Belden RG11 Outdoor
- Hoffman box w/13 POS TERMINAL BLOCK for antenna control
- Cranes, Forklift, and Trash container

1.2.2 3.7M KU TX Antenna

- ASC 3.7M Ku-Band TX/RX Antenna. Galvanized pedestal mount, motorizable AZ/EL jackscrews
- 4-port Ku-Band linear polarized TX/RX feed 4-Port Universal Ku-Band Transmit/Receive Feed System
 - ✓ 2kW Maximum Power Per Port
 - ✓ Operating Freq: 10.7-12.75 GHz Receive
 - ✓ Operating Freq: 13.75-14.8 GHz Transmit
 - ✓ T/R Isolation @ 13.75-14.0; 75dB
 - ✓ T/R Isolation @ 14.0-14.8; 80dB
 - ✓ 35dB XPD
 - ✓ 0.5 PSI Max Air Pressure to Feed
- ASC-400 Antenna Programmable Controller, Storage Capacity for 63 satellite positions.
 - Large, easy to read display, complete configuration through front panel and handheld controller
- Norsat 1507HA LNB, KU PLL, 11.7-12.2, +/- 5 KHZ, .7db
- Quintech dual 4-Way Active Splitter With Dual Redundancy (950-2150 MHz)
- GDSatCom Ku-band, 14.0 - 14.5 GHz, 100W, outdoor SSPA System with Integrated Block Up-Converter MODEL BUC14000A
- GDSatCom Remote control panel - Allows remote M&C of Antenna Mount SSPAs
- Voyager II Integrated DVB-S/S2 modulator/encoder with IF and L-Band outputs, fully functional front panel control with monitoring and control, Web browser control
- ADC 24 PORT BNC HD Normalizing Patch Panel (L-Band downlink patch panel)
- Cable/connectors LDF150, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 1/4 in, black PE jacket
- Cable/connectors Belden RG6 Indoor
- Cable/connectors Belden RG6 Outdoor
- Cable/connectors Belden RG11 Outdoor
- Cranes, Forklift, and Trash container

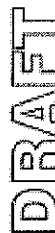
1.2.3 4.9M C-Band TX Antenna

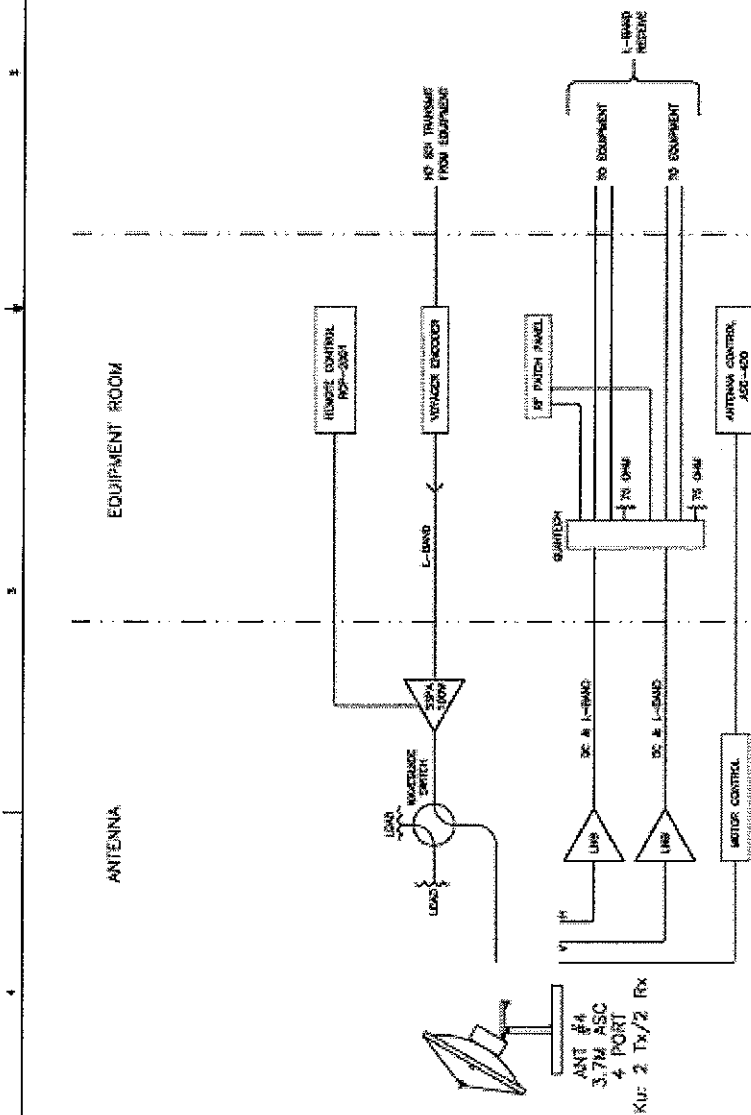
- ASC 4.9 Meter C or Ku-Band Dual Reflector Transmit/Receive Earth Station Antenna.
- 4-Port C-Band Linear Polarized Transmit/Receive Feed System. Includes Feed Horn, Feed Support and Circular Waveguide. 2.5 kW Power Per Port.
 - Includes:
 - ✓ Feed Horn, Feed Support, Combiner, Waveguide
 - ✓ Operating Freq: 3.625 - 4.2 GHz Receive
 - ✓ Operating Freq: 5.850 - 6.425 GHz Transmit
 - ✓ 85 dB Transmit to Receive Isolation
 - ✓ 2500 W Per Transmit Port
 - ✓ 0.5 PSI Max Air Pressure to Feed

- ✓ 35dB XPD
- ASC-400 Antenna Programmable Controller, Storage Capacity for 63 satellite positions.
Large, easy to read display, complete configuration through front panel and handheld controller
- Norsat 3120-F LNB, C BAND PLL +/- 5 KHZ, 20 deg.
- Quintech dual 4-Way Active Splitter With Dual Redundancy (950-2150 MHz)
- GDSatCom C-Band, 5.850 - 6.425 GHz, 200W, outdoor SSPA with integrated Block Up-Converter Model BUC-6000A
- GDSatCom Remote control panel - Allows remote M&C of Antenna Mount SSPAs
- Voyager II Integrated DVB-S/S2 modulator/encoder with IF and L-Band outputs, fully functional front panel control with monitoring and control, Web browser control
- ADC 24 PORT BNC HD Normalizing Patch Panel (L-Band downlink patch panel)
- Cable/connectors LDF150, HELIAX® Low Density Foam Coaxial Cable, corrugated copper, 1/4 in, black PE jacket
- Cable/connectors Belden RG6 Indoor
- Cable/connectors Belden RG6 Outdoor
- Cable/connectors Belden RG11 Outdoor
- Cranes, Forklift, and Trash container

1.3 Satellite Dish Conceptual Drawings

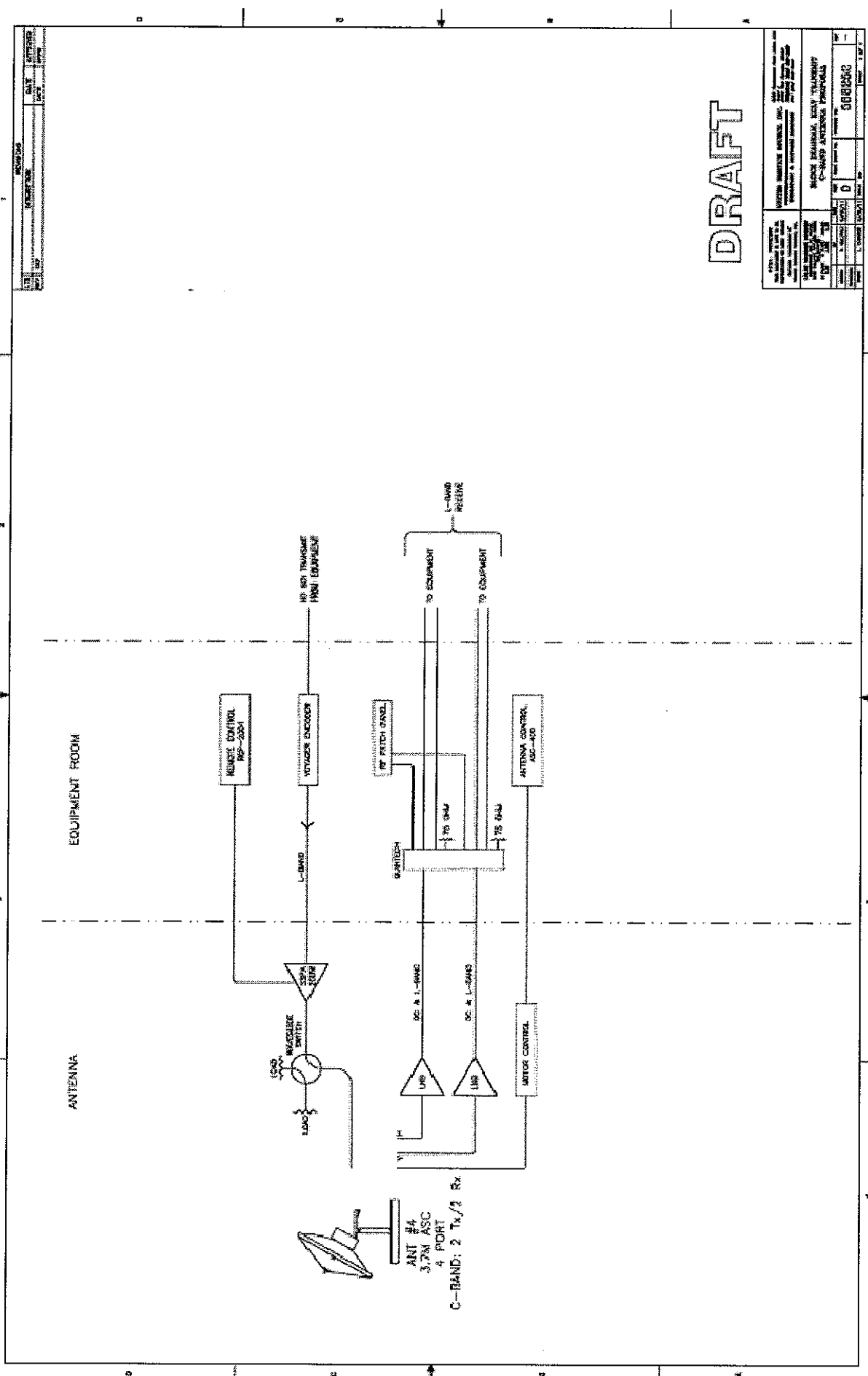
The following three illustrations represent the proposed KU and C-Band systems recommended by USSI for the City of Las Vegas project.





RAFT

[illegible]



DATE: 10/10/00	BY: [Signature]	REV: 1.0
PROJECT: [Project Name]	DESCRIPTION: [Project Description]	APPROVED: [Signature]
DESIGNED BY: [Name]	DESIGNED DATE: [Date]	DESIGNED TIME: [Time]
CHECKED BY: [Name]	CHECKED DATE: [Date]	CHECKED TIME: [Time]
DATE: 10/10/00	BY: [Signature]	REV: 1.0
PROJECT: [Project Name]	DESCRIPTION: [Project Description]	APPROVED: [Signature]
DESIGNED BY: [Name]	DESIGNED DATE: [Date]	DESIGNED TIME: [Time]
CHECKED BY: [Name]	CHECKED DATE: [Date]	CHECKED TIME: [Time]

1.4 Testing and Relocation of Existing KCLV Equipment

Sony shall evaluate and verify operation of existing KCLV equipment prior to removal from the existing broadcast system and subsequent relocation/installation in the new OB Trailer and/or television studio in the new City Hall facility. Equipment test shall be limited to the following:

- 1) Equipment currently on-line and in service shall be assumed as fully operational. No further test shall be performed.
- 2) Equipment that is not in service will be visually inspected for damage or abuse, bench tested for basic power on/off functions, and passing a valid e to e test signal from device input to output.
- 3) VTR's shall additionally be tested for tape transport operation, and basic record and playback functions. The elapsed VTR head drum hours stored in the unit will be recorded during the inspection.

Testing does not include remedial repair or calibration of the equipment. Sony shall not be liable for equipment that is operational when powered down, but fails on start up after installation in the new systems. Sony will promptly notify the KCLV project representative of equipment found to be non-functional or otherwise unsuitable for use in the new systems and for PFE equipment that fails to operate properly after installation in the new systems.

Sony will audit and log all purchaser furnished equipment determined acceptable for reuse in the new systems. Sony will extend all reasonable effort to transport the equipment to the new facility in a safe and secure manner to prevent negligent damage or physical abuse as required by the RFP. Sony is responsible for transport of purchaser furnished equipment to the OB trailer fabrication facility and to the new City Hall as required.

The City of Las Vegas shall provide a safe, secure and weather protected location for temporary storage of the purchaser furnished equipment. If necessary, Sony shall provide weather resistant, lockable storage containers for outdoor storage of the equipment at, or near the site during the system assembly phase.

The disposition of surplus equipment that will not be repurposed in the new systems is the responsibility of the City of Las Vegas and KCLV. Sony shall transport such surplus equipment to a storage location within the Las Vegas metropolitan area as designated by KCLV and the City of Las Vegas.

1.5 Project Implementation

Seamless transition of broadcast operations is of paramount importance. Our team takes any transition extremely seriously with a well laid out and rehearsed technical plan. We will work with KCLV and the City of Las Vegas to coordinate various options to provide a cost-effective, seamless switchover as possible with minimal risk. This could include working with an off-site video switching center that would act as a bridge between studio locations and the distribution center, forward feeding the legacy signal to the new building, and dual feeding the old and new signals to the distribution channel.

Sony will work closely with KCLV to determine the most efficient and risk-free cutover procedure. Many factors such as off-air windows, fiber connectivity between the old and new facilities, temporary near-line storage and playout needs, coordination with Century/COX Cable need to be discussed for inclusion in the transition plan.

To this end, Sony will pre-build, test and commission as much technical infrastructure as possible in the new facility with the goal of implementing the transition as easy as making a signal route. Of course, this transition would occur during a scheduled service window whenever possible.

Our proposed project schedule in Section 4.7 below outlines the following tasks and milestones for completion:

Pre-build infrastructure prior to transition:

- Satellite systems
- Studio lighting
- Production control room
- Equipment center
- Master control
- 3 new edit rooms with associated SAN
- Miscellaneous spaces including:
 - ✓ Maintenance
 - ✓ Lobby
 - ✓ Mayor's conference room
 - ✓ Viewing room
 - ✓ Camera and tape storage
 - ✓ BSPs

During transition:

- 4 remaining edit rooms (relocated Edits 4 through 7)

Post-transition integration:

- Non mission-critical systems
- Production truck delivery

In addition, all crucial vendor commissioning and technical training is scheduled to occur prior to transition to prepare the KCLV staff in use the new systems and understanding the new infrastructure prior to going live.

1.6 Project Timeline

Sony takes pride in its ability to complete projects on time and on budget. On award of the project and an agreement to proceed, Sony will prepare a detailed project schedule designed to meet KCLV's requirements for implementation of the systems defined in this proposal. The following Gantt chart is a preliminary timeline for implementation of the project outlined in the City of Las Vegas RFP. The project schedule is based on a project commencement date on, or about July 5, 2011 with a target substantial completion date of February 29, 2012. The dates can be time shifted

Sony Preliminary Work Plan

SONY Systems Solutions			City of Las Vegas KCLV Relocation and HD Upgrade		Proposal Number: PSA#0234	
ID	Task Name	Duration	Start	Finish	1st Half	2nd Half
1	KCLV Channel 2 Project Duration	145 days?	Mon 7/4/11	Mon 2/6/12	1/18/11-2/2/11	2/3/11-2/17/11
2	Project Award	1 day?	Mon 7/4/11	Mon 7/4/11	7/4	KCLV Channel
3	Conceptual Design Process	20 days?	Tue 7/5/11	Mon 8/1/11	7/5	Conceptual Design Process
4	Facility Infrastructure Review	10 days?	Tue 7/5/11	Mon 7/18/11	7/5	Facility Infrastructure Review
5	Contractors Meetings/Architects/City of LV/CC/ME/EE/ENG	5 days?	Tue 7/12/11	Mon 7/18/11	7/12	Contractors Meetings/Architects/City of LV/CC/ME/EE/ENG
6	Existing Equipment Audit and Log	10 days?	Tue 7/12/11	Mon 7/18/11	7/12	Existing Equipment Audit and Log
7	Conceptual Design and Documentation	15 days?	Tue 7/12/11	Mon 8/1/11	7/12	Conceptual Design and Documentation
8	Conceptual Design Approval	2 days?	Tue 8/2/11	Fri 8/5/11	8/2	Conceptual Design Approval
9	PFE Equipment List development	3 days?	Tue 8/2/11	Fri 8/5/11	8/2	PFE Equipment List development
10	Equipment List development/Approval	8 days?	Mon 8/8/11	Tue 8/15/11	8/8	Equipment List development/Approval
11	Finalized Approval Level Design Process	30 days?	Mon 8/22/11	Fri 9/30/11	8/22	Finalized Approval Level Design Process
12	Satellite System	20 days?	Mon 8/22/11	Fri 9/16/11	8/22	Satellite System
13	Studio Lighting	20 days?	Mon 8/22/11	Fri 9/16/11	8/22	Studio Lighting
14	Production Control Room	20 days?	Mon 8/22/11	Fri 9/16/11	8/22	Production Control Room
15	Studio	20 days?	Mon 8/22/11	Fri 9/30/11	8/22	Studio
16	Audio Control Room	20 days?	Mon 8/22/11	Fri 9/16/11	8/22	Audio Control Room
17	Intercom	20 days?	Mon 8/22/11	Fri 9/16/11	8/22	Intercom
18	Master Control Room	20 days?	Mon 8/22/11	Fri 9/16/11	8/22	Master Control Room
19	SAVEDIT	20 days?	Mon 8/22/11	Fri 9/30/11	8/22	SAVEDIT
20	NO Design and layout	20 days?	Mon 8/22/11	Fri 9/16/11	8/22	NO Design and layout
21	Council Chambers Control Room	20 days?	Mon 8/22/11	Fri 9/16/11	8/22	Council Chambers Control Room
22	Design Review/Verification 100%	40 days?	Mon 8/22/11	Fri 10/14/11	8/22	Design Review/Verification 100%
23	Critical Design Approval/System Checkout 100%	40 days?	Mon 8/22/11	Fri 10/14/11	8/22	Critical Design Approval/System Checkout 100%
24	Equipment and Materials Pricing 100%	40 days?	Mon 8/22/11	Fri 10/14/11	8/22	Equipment and Materials Pricing 100%
25	Complete Equipment list per City approved design 100%	40 days?	Mon 8/22/11	Fri 10/14/11	8/22	Complete Equipment list per City approved design 100%
26	Hardware and Software Purchase 100%	40 days?	Mon 8/22/11	Fri 10/14/11	8/22	Hardware and Software Purchase 100%
27	Create Construction Documentation/Detail Design 100%	40 days?	Mon 8/22/11	Fri 10/14/11	8/22	Create Construction Documentation/Detail Design 100%
28	Implementation (Broadcast Systems)	138 days?	Tue 7/18/11	Mon 2/6/12	7/18	Implementation
29	On Site Integration Start	1 day?	Mon 10/3/11	Mon 10/3/11	10/3	On Site Integration Start
30	Wire Runlist Data Base Creation	30 days?	Mon 9/19/11	Fri 10/28/11	9/19	Wire Runlist Data Base Creation
31	Cable Fabrication	30 days?	Mon 10/3/11	Fri 11/18/11	10/3	Cable Fabrication
32	Fabrication 50% complete	1 day?	Mon 10/24/11	Mon 10/24/11	10/24	Fabrication 50% complete
33	Fabrication 100% complete	1 day?	Mon 11/14/11	Mon 11/14/11	11/14	Fabrication 100% complete
34	On Site Integration start	1 day?	Mon 9/19/11	Mon 9/19/11	9/19	On Site Integration start
35	Deliver off site pre-build components	1 day?	Mon 10/3/11	Mon 10/3/11	10/3	Deliver off site pre-build components
36	Onsite Integration	138 days?	Tue 7/18/11	Mon 2/6/12	7/18	Onsite Integration
37	Detailed Interference Analysis Satellite System	10 days?	Tue 11/8/11	Mon 8/1/11	11/8	Detailed Interference Analysis Satellite System
38	Frequency Coordination	10 days?	Tue 8/2/11	Mon 8/15/11	8/2	Frequency Coordination

Project:
KCLV Ch2 Design and Integration
Date: Mon 8/13/11

Task
Split
Progress

Milestone
Summary
Project Summary

External Tasks
External Milestone
Deadline

City of Las Vegas KCLV
Relocation and HD Upgrade

Proposal Number:
PSA000234

Task	Milestone	External Tasks
Project:		
VCL V Cr2 Design and Integration		
OSSE Main 12/3/11		
Split		
Progress		

Sony Preliminary Work Plan

SONY Systems Solutions		City of Las Vegas KCLV Relocation and HD Upgrade		Proposal Number: PSA000234	
ID	Task Name	Duration	Start	Finish	1st Half 2nd Half
91	Interior Library MO	2 days?	Fr 11/28/11	Mon 11/28/11	Interior Library MO
92	Exterior Library MO	2 days?	Tue 11/29/11	Wed 11/30/11	Exterior Library MO
93	Reception	2 days?	Tue 11/29/11	Fr 12/3/11	Reception
94	Mayor's Conference Room	5 days?	Fr 11/25/11	Fr 12/3/11	Mayor's Conference Room
95	Curriculum Media Truck Area	2 days?	Mon 12/5/11	Tue 12/6/11	Curriculum Media Truck Area
96	Purchasing Assist/Shop Assist	38 days?	Mon 11/28/11	Fr 1/19/12	Inst3
97	Test Start	1 day?	Mon 10/31/11	Mon 10/31/11	Test Start
98	Test Commission	45 days?	Mon 10/31/11	Tue 1/16/12	Test Commission
99	Vendor Commissioning Start	1 day?	Mon 11/28/11	Mon 11/28/11	Vendor Commissioning Start
100	Vendor Commissioning	10 days?	Tue 11/29/11	Wed 11/30/11	Vendor Commissioning
101	Training Start	1 day?	Tue 11/29/11	Thu 12/1/11	Training Start
102	Training Phase I	5 days?	Fr 12/2/11	Thu 12/8/11	Training Phase I
103	1st Broadcast from New Facility	1 day?	Fr 12/16/11	Fr 12/16/11	1st Broadcast from New Facility
104	Training Phase II	5 days?	Mon 12/12/11	Fr 12/16/11	Training Phase II
105	Substantial Completion	1 day?	Mon 12/12/11	Mon 12/12/11	Substantial Completion
106	Aggregational Documentation Delivery	8 days?	Mon 12/12/11	Mon 12/12/11	Aggregational Documentation Delivery
107					
108	Relocation	26 days?	Wed 12/7/11	Wed 1/16/12	Relocation
109	Decommission existing Edit 1 and Move to City-HA	2 days?	Tue 12/13/11	Wed 12/14/11	Decommission existing Edit 1 and
110	Edit 4	3 days?	Tue 12/13/11	Mon 12/19/11	Edit 4
111	Decommission existing Edit 2 and Move to City-HA	2 days?	Tue 12/20/11	Wed 12/21/11	Decommission existing Edit 2 and
112	Edit 5	3 days?	Thu 12/22/11	Mon 12/12/11	Edit 5
113	Decommission existing Edit 3 and Move to City-HA	2 days?	Tue 12/13/11	Wed 12/14/11	Decommission existing Edit 3 and
114	Edit 6	3 days?	Tue 12/13/11	Mon 12/19/11	Edit 6
115	Decommission existing Edit 4 and Move to City-HA	2 days?	Tue 11/20/11	Wed 11/21/11	Decommission existing Edit 4
116	Edit 7	3 days?	Thu 11/24/11	Mon 11/27/11	Edit 7
117	Equipment decommission and relocation	25 days?	Wed 12/7/11	Tue 1/16/12	Equipment decommission
118	On Site Installation Complete	1 day?	Wed 11/16/11	Wed 11/16/11	On Site Installation Complete
119					
120	KCLV-TV 2 Production Truck Schedule	141 days?	Wed 8/31/11	Fr 3/22/12	
121	Production Trailer Acquisition	1 day?	Wed 8/31/11	Wed 8/31/11	Production Trailer Acquisition
122	Production Trailer Delivery	1 day?	Thu 9/5/11	Thu 9/5/11	Production Trailer Delivery
123	Coach Works	10 days?	Fr 9/5/11	Thu 10/13/11	Coach Works
124	Antenna Installation	10 days?	Fr 10/14/11	Thu 10/27/11	Antenna Installation
125	Conceptual Design and Documentation	10 days?	Mon 10/31/11	Fr 11/11/11	Conceptual Design and Documentation
126	Conceptual Design Approval	1 day?	Mon 10/31/11	Mon 10/31/11	Conceptual Design Approval
127	New Equipment List development/Approval	1 day?	Tue 10/18/11	Mon 10/18/11	New Equipment List development/Approval
128	Detail Design	30 days?	Wed 10/19/11	Thu 12/1/11	Detail Design
129	Design Review/Verification 100%	1 day?	Fr 12/2/11	Fr 12/2/11	Design Review/Verification 100%
130	Official Design Approval/System Checkout 100%	1 day?	Fr 12/2/11	Fr 12/2/11	Official Design Approval/System Checkout 100%
131	Equipment and Materials Pricing 100%	1 day?	Fr 12/2/11	Fr 12/2/11	Equipment and Materials Pricing 100%
132	Complete Equipment list per City approved design 100%	1 day?	Mon 12/12/11	Mon 12/12/11	Complete Equipment list per City approved design 100%
133	Create Construction Documentation/Detail Design 100%	1 day?	Fr 12/2/11	Fr 12/2/11	Create Construction Documentation/Detail Design 100%
134	Wire Runtlet Data Base Creation	12 days?	Mon 12/5/11	Tue 12/20/11	Wire Runtlet Data Base Creation
135	Installation Supervisor	58 days?	Wed 12/21/11	Fr 3/16/12	

Project:	Task	Milestone	External Tasks
KCLV Ch2 Design and Integration	Split	Summary	External Milestone
Date: Mon 8/2/11	Progress	Project Summary	Deadline

Sony Preliminary Work Plan

SONY Systems Solutions			City of Las Vegas KCLV Relocation and HD Upgrade			Proposal Number: FSAN00231		
ID	Task Name	Duration	Start	Finish	1st Half	2nd Half	1st Half	2nd Half
136	Cable Fabrication	15 days	Mon 12/13/11	Fri 1/13/12	12/13/11	12/13/11	12/13/11	12/13/11
137	Peak Installation	5 days	Mon 12/13/11	Fri 12/23/11	12/13/11	12/13/11	12/13/11	12/13/11
138	Console Installation	5 days	Mon 12/13/11	Fri 12/23/11	12/13/11	12/13/11	12/13/11	12/13/11
139	Trailer Cabling	23 days	Mon 12/13/11	Wed 2/01/12	12/13/11	12/13/11	12/13/11	12/13/11
140	Custom Fabrication	22 days	Mon 12/13/11	Tue 2/07/12	12/13/11	12/13/11	12/13/11	12/13/11
141	Equipment Shipping and Receiving 100%	1 day	Wed 1/10/12	Wed 1/10/12	1/10/12	1/10/12	1/10/12	1/10/12
142	Equipment Installation	10 days	Thu 1/25/12	Wed 2/01/12	1/25/12	1/25/12	1/25/12	1/25/12
143	Equipment Installation 100%	1 day	Thu 2/01/12	Tue 2/07/12	2/01/12	2/01/12	2/01/12	2/01/12
144	Installation Complete	1 day	Fri 2/09/12	Fri 2/09/12	2/09/12	2/09/12	2/09/12	2/09/12
145	Test Start	1 day	Mon 1/30/12	Mon 1/30/12	1/30/12	1/30/12	1/30/12	1/30/12
146	Test/Commission	10 days	Thu 2/01/12	Wed 2/22/12	2/01/12	2/01/12	2/01/12	2/01/12
147	Permit	21 days	Thu 2/01/12	Thu 2/01/12	2/01/12	2/01/12	2/01/12	2/01/12
148	Substantial Completion	1 day	Fri 3/02/12	Fri 3/02/12	3/02/12	3/02/12	3/02/12	3/02/12
149	Vendor Commissioning Start	5 days	Thu 2/15/12	Thu 2/15/12	2/15/12	2/15/12	2/15/12	2/15/12
150	Vendor Commissioning	5 days	Thu 2/15/12	Wed 2/22/12	2/15/12	2/15/12	2/15/12	2/15/12
151	Training Start	5 days	Thu 2/22/12	Wed 2/22/12	2/22/12	2/22/12	2/22/12	2/22/12
152	Training Phase	5 days	Thu 3/01/12	Wed 3/07/12	3/01/12	3/01/12	3/01/12	3/01/12
153	As Built/Final Documentation Delivery	0 days	Fri 3/09/12	Fri 3/09/12	3/09/12	3/09/12	3/09/12	3/09/12

Project:
KCLV Cn2 Design and Integration
Date: Mon 6/13/11

Task
Split
Progress

Milestone
Summary
Project Summary

External Tasks
External Milestone
Deadline

Attachment 3 - Preliminary System Technical Description – 9-21-11

The major Studio subsystems proposed for KCLV are summarized below for your consideration. Refer to the Bill of Materials in proposal Section 6.2 for an itemized schedule of the equipment, materials, services and system options represented in this proposal.

1.1 Studio & Broadcast Control Room

1.1.1 Studio Acquisition

1.1.1.1 Fixed Cameras

Four (4) HXCD-70K 2/3" High Definition Multi-Format cameras will be provided with a 5 inch LCD color viewfinders and VCT14 tripod adapter. The cameras will have the following lens configurations:

Lens – 16x (optical) with semi-servo rear controls w/selectable image stablizer

Optional camera configuration:

Camera – Up to two (2) additional cameras as above will be provided.

Each camera chain will include a HXCUD70 camera control unit and a RCP-1501 remote control panel for each camera. All control connections will utilize POE Ethernet connections.

1.1.1.2 Ceiling Camera

One (1) BRCZ330 High Definition Pan/Tilt/Zoom (PTZ) camera will be provided. The camera will have a lens configuration with an appropriate focal length for use in the Studio.

1.1.2 Core Infrastructure

1.1.2.1 Routing

One (1) PM-128x128-3G9 reclocking video/audio router, 3G capable, populated (104x104), expandable to (128X128). Includes various configurations of router control panels to suit operator position.

1.1.2.2 Reference & Distribution

Reference:

- a) Redundant Sync Generator with Auto-changeover
- b) HDSDI Test and Black signal generator
- c) SDI Test and Black signal generator
- d) LTC generator
- e) AES tone / Word Clock generator

Distribution:

- a) Analog Reference signals

- b) HD/SD Test and Black signals
- c) HD/SD Frame Synchronizers
- d) HD/SD embed/de-embed conversion
- e) HD/SD reclocked signals
- f) HD Up/Down/Cross Conversion
- g) AES signals
- h) AES to Analog audio conversion
- i) Analog audio to AES conversion

1.1.2.3 **Multi-viewer**

Multi-viewer system includes:

Monitor wall: Four (4) FWD-S47H1 47" LCD monitors with routable inputs. Up to sixteen (16) inputs can be monitored at one time on each LCD monitor for a total number of up to sixty-four (64) inputs.

1.1.2.4 **Intercom**

Distributed master-less system architecture:

- a) 32x32 ports
- b) Full summing, non-blocking
- c) Two-wire party internal interface for wireless and I/O panel connection
- d) Wireless beltpacks

1.1.2.5 **Video Control Area**

The following will be installed in the production control area:

- One (1) Multi-format Production Switcher MVS-7000X:
 - a) 2 M/E HD switcher 40x24 matrix
 - b) 2 Channel DME
 - c) Frame memory
 - d) 2 M/E cards

The production switcher will have tally trigger and device control capability.
Appropriate technical monitoring

1.1.2.6 **Audio Control Area**

- a) The following will be installed in the audio control area:
- b) One (1) Digital Audio Mixing Console LS9-32
- c) 64 channel digital audio console
- d) Near field audio monitoring
- e) A video recording area which includes:
 - 1) One (1) Disc recorder with multi-format HD/SD record and playback PDW-F75
 - 2) Multiple purchaser furnished record/playback devices
 - 3) One (1) Final Cut Pro editing workstation
 - 4) Two (2) Digital telephone hybrids

1.1.2.7 **Graphics Area**

One (1) operator position will be supported in the graphics area.

The following will be installed in the graphics area:

- a) One (1) HD/SD 2 channel graphics system Inscrber G5
- b) HD/SD dual channel clip player
- c) Video monitoring for channel A, channel B and Program
- d) Operational monitoring

1.1.2.8 Camera Shading Area

The following will be installed in the camera shading area:

- a) Four (4) Camera remote control panels RCP1501 for the Studio cameras
- b) Two (2) Camera remote control panels RMBR300 for the Studio ceiling camera and the other PTZ cameras: one (1) rooftop camera and five (5) Council Chamber cameras
- c) Appropriate technical monitoring

1.2 Master Control Room

1.2.1 Core Infrastructure

1.2.1.1 Multi-viewer

Multi-viewer system includes:

Monitor wall: Two (2) Sony FWD-S47H1 47" LCD monitors with routable inputs. Up to sixteen (16) inputs can be monitored at one time on each LCD monitor for a total number of up to thirty-two (32) inputs.

1.2.1.2 Video/Audio Control Area

The following will be installed in the master control area:

- One (1) Multi-format Master Control Switcher IconMaster:
 - a) 7 inputs (A, B, Fill1, Key1, Fill2, Key2, squeeze background)
 - b) 2 Channel Squeezeback
 - c) EAS interface
 - d) AES audio support: embedded and coaxial
 - e) Appropriate technical monitoring

1.2.1.3 Video Dub Area

A video recording area which includes:

- a) One (1) Disc recorder with multi-format HD/SD record and playback PDW-F75
- b) Multiple purchaser furnished legacy record/playback devices
- c) One (1) Final Cut Pro editing workstation
- d) Two (2) Digital telephone hybrids

1.3 Council Chambers

1.3.1 Acquisition

1.3.1.1 Wall Cameras

Five (5) Sony BRCZ330 High Definition Pan/Tilt/Zoom (PTZ) cameras will be provided. The cameras will have lens configurations with appropriate focal lengths for use in the Council Chambers.

1.3.2 Production Control Room

1.3.2.1 Multi-viewer

Multi-viewer system includes:

Monitor wall: One (1) Sony FWD-S47H1 47" LCD monitor with routable inputs. Up to sixteen (16) inputs can be monitored at one time.

1.3.2.2 Video Control Area

The following will be installed in the production control area:

- a) One (1) Multi-format Production Switcher Control Panel Sony BRS-200:
- b) 1M/E, 8 HD/SD inputs
- c) Pan/tilt/zoom, iris, and focus control of the PTZ cameras
- d) Appropriate technical monitoring

1.3.2.3 Audio Control Area

The following will be installed in the audio control area:

- a) One (1) purchaser furnished Audio Mixing Console SR32-4-VLZ-PRO
- b) 32 channel audio console
- c) Near field audio monitoring

1.3.2.4 Graphics Area

One (1) operator position will be supported in the graphics area.

The following will be installed in the graphics area:

- a) One (1) HD/SD 1 channel graphics system Inscrber G5
- b) HD/SD channel clip player
- c) Video monitoring for channel A and Program
- d) Operational monitoring

1.3.2.5 Editing/SAN Ingest Area

The following will be installed in this area:

- a) One (1) Final Cut Pro editing workstation
- b) Appropriate technical monitoring

1.4 Camera Storage

1.4.1 Acquisition

1.4.1.1 Field Cameras

Two (2) PDWF355L 1/2" High Definition Disc Camcorders will be provided with a wireless microphone capability. The cameras will have the following lens configurations:

- Purchaser furnished Fujinon A13x4.5DBERM with 2/3" lens mount adapters

Two (2) PDWU1 Disc drive units will allow for media transfer into the SAN via the Final Cut Pro workstation.

1.4.1.2 Editing/SAN Ingest Area

The following will be installed in this area:

- a) One (1) Final Cut Pro editing workstation
- b) Appropriate technical monitoring

1.5 Editing Rooms

There are seven (7) edit suites each includes:

- a) One (1) Final Cut Pro editing workstation
- b) Appropriate technical monitoring

1.6 Various Other Locations

1.6.1 Viewing Room

One (1) ceiling mounted FWD-S47H1 47" LCD monitor with a routable input.
Near field audio monitoring

1.6.2 Tape Storage

The purchaser furnished on-line tape backup system along with the off-line tape/DVD storage cabinets will be located in this room.

1.6.3 Rooftop / Satellite Antenna Equipment Room

1.6.3.1 Roof Camera

The Roof Camera has been removed from the system as directed by The City of Las Vegas. Wiring for the camera will be installed for connection of the camera when purchased in the future.

I/O panels with data, video, audio, and control tie lines will be installed in appropriate locations.

Equipment racks will be provided for the Satellite Antenna Equipment Room.

1.6.4 Reception and Lobbies

1.6.4.1 Reception

One (1) Sony KDL55EX500 55" LCD HDTV will be provided. This TV will allow for CATV reception.

I/O panels with data, video, audio, and control tie lines will be installed in appropriate locations.

1.6.5 Mayor's Conference Room and Curbside Media Truck Area

I/O panels with data, video, audio, and control tie lines will be installed in appropriate locations.

1.6.6 Truck Garage, Maintenance Area, and Communications Distribution Room

Equipment racks will be provided for these areas.

I/O panels with data, video, audio, and control tie lines will be installed in appropriate locations.

1.7 System Assumptions

1.7.1 New House Codec

Sony will work with the KCLV to determine the best codec format. Many factors such as ingest and playout bit-rates, current storage I/O limitations, and file format compatibility with legacy files need to be discussed before useful recommendations can be made.

1.7.2 SAN Expansion

Sony will work with the client to determine the need for additional capacity. Many factors such as typical file sizes, current near-line storage needs, and typical file purge rate need to be discussed before useful recommendations can be made.

1.7.3 Temporary Air Operations

Sony will work with KCLV to determine the workflow needed. Many factors such as daily on-air hours, current automation limitations, and a workable temporary file purge rate need to be discussed before useful storage and playout equipment recommendations can be made.



2011 PREVAILING WAGE CLARK COUNTY

DATE OF DETERMINATION: October 1, 2011

APPLICABLE FOR PUBLIC WORKS PROJECTS
OCTOBER 1, 2010 THROUGH SEPTEMBER 30, 2011

*Pursuant to NAC 338.040(3), "After a contract has been awarded, the prevailing rates of wages in effect at the time of the award shall remain in effect for the duration of the contract."

As Amendments/Addenda are made to the wage rates, they shall be posted to sites of the respective counties. Please check regularly for any amendments posted or contact the Office of the Labor Commissioner directly for further assistance with any amendment rates.

AIR BALANCE TECHNICIAN
ALARM INSTALLER
BOILERMAKER
BRICKLAYER
CARPENTER
CEMENT MASON
ELECTRICIAN-COMMUNICATION TECH
ELECTRICIAN-LINE
ELECTRICIAN-NEON SIGN

ELECTRICIAN-WIREMAN
ELEVATOR CONSTRUCTOR
FENCE ERECTOR
FLAGPERSON
FLOOR COVERER
GLAZIER
HIGHWAY STRIPER
HOD CARRIER-BRICK MASON
HOD CARRIER-PLASTERER TENDER
IRON WORKER
LABORER
MECHANICAL INSULATOR
MILLWRIGHT
OPERATING ENGINEER
OPERATOR-CRANES, PILEDRIVING & HOISTING EQUIPMENT
OPERATING ENGINEER-SURVEYOR
OPERATING ENGINEER-TUNNEL
PAINTER/TAPER/PAPERHANGER
PILEDRIIVER (NON-EQUIPMENT)
PLASTERER
PLUMBER/PIPEFITTER
REFRIGERATION
ROOFER (Does not include sheet metal roofs)
SHEET METAL WORKER
SPRINKLER FITTER
*SURVEYOR (NON-LICENSED)
TAPER
TILE/TERRAZZO/MARBLE
TRAFFIC BARRIER ERECTOR
TRUCK DRIVER
WELL DRILLER
EQUIPMENT GREASER (RACK)
EQUIPMENT GREASER (GREASE TRUCK)
EQUIPMENT GREASER (GREASE TRUCK/MULTI-SHIFT)
TUNNEL, EQUIPMENT GREASER (GREASE TRUCK)
FIELD SOILS AND MATERIAL TESTER
FIELD ASPHALTIC CONCRETE (SOILS AND MATERIAL TESTER)

<u>PREVAILING WAGE RATES INCLUDE THE BASE RATE AS WELL AS ALL APPLICABLE FRINGES</u>
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NRS 338.010(21) "Wages" means:

- (a) The basic hourly rate of pay; and
- (b) The amount of pension, health and welfare, vacation and holiday pay, the cost of apprenticeship training or other similar programs or other bona fide fringe benefits which are a benefit to the workman.

NRS 338.035 Discharge of part of obligation of contractor or subcontractor engaged on public work to pay wages by making certain contributions in name of workman.
 The obligation of a contractor engaged on a public work or a subcontractor engaged on a public work to pay wages in accordance with the determination of the Labor Commissioner may be discharged in part by making contributions to a third person pursuant to a fund, plan or program in the name of the workman.

CRAFT	RATE
AIR BALANCE TECHNICIAN	<u>ADD SHEET M</u>
Air Balance Technician-Journeyman	59.52
Air Balance Technician-Foreman	63.97
Air Balance Technician-General Foreman	68.42
ALARM INSTALLER	
Alarm Installer-Journeyman	55.95
BOILERMAKER	
Boilermaker	65.94
BRICKLAYER	<u>ADD ZONE RA</u>
Bricklayer-Journeyman	45.43
CARPENTER	<u>ADD ZONE RA</u>
Carpenter-Journeyman	48.95
Carpenter-Welder	49.95
Carpenter-Foreman	52.08
Carpenter-General Foreman	55.49
CEMENT MASON	<u>ADD ZONE RA</u>
Cement Mason-Journeyman	46.28
Cement Mason-Foreman	48.28
Cement Mason-General Foreman	50.03
ELECTRICIAN- COMMUNICATION TECHNICIAN	<u>ADD ZONE RA</u>
Installer/Technician	39.83

Exhibit A – Prevailing Wage Oct 2010-Sept 2011

Senior Installer/Technician	55.95
Installer/Technician Foreman	60.53
Installer/Technician General Foreman	63.93

**ELECTRICIAN-
LINEMAN/GROUNDMAN/HEAVY
EQUIPMENT OPERATOR**

Groundman	35.33
Lineman	52.82
Foreman	57.86
General Foreman	62.97
Heavy Equipment Operator	43.37

ELECTRICIAN-NEON SIGN

Electrician-Neon Sign	45.52
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ELECTRICIAN-WIREMAN

ADD ZONE RA

Wireman-Journeyman	56.31
Wireman-Cable Splicer	56.83
Wireman-Foreman	60.84
Wireman-General Foreman	65.37

ELEVATOR CONSTRUCTOR

Elevator Constructor-Journeyman Mechanic	64.58
Elevator Constructor-Mechanic In Charge	70.59

FENCE ERECTOR

Fence Erector	17.46
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FLAGPERSON

ADD LABOREI

Flagperson	41.44
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FLOOR COVERER

Floor Coverer-Joureyman	42.40
Floor Coverer-Foreman	47.32

GLAZIER

Glazier-Journeyman	57.51
Glazier-Foreman	61.70

HIGHWAY STRIPER

Highway Striper	30.81
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**HOD CARRIER-BRICK MASON
TENDER**

ADD LABOREI

Exhibit A – Prevailing Wage Oct 2010-Sept 2011

Brick Mason	43.31
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HOD CARRIER-PLASTERER TENDER**ADD LABORE**

Plasterer Tender-Journeyman	44.34
Plasterer Tender-Foreman	46.34
Plasterer Tender-General Foreman	47.34

IRON WORKER

Ironworker-Journeyman	56.74
Ironworker-Foreman	60.04
Ironworker-General Foreman	63.40

LABORER**SEE GROUP CLASSIFICATIONS****ADD ZONE RA**

Group 1	42.94
Group 2	43.15
Group 3	43.25
Group 4	43.34
Group 5	43.44
Group 6A	46.10
Group 6B	45.60
Group 6C	45.35
Group 6D	45.96
Group 6E	45.60
Group 7	44.67

Foreman \$2.00 above highest paid journeyman supervised.

General Foreman \$3.00 above highest paid foreman supervised.

MECHANICAL INSULATOR

Mechanical Insulator-Journeyman	56.23
Mechanical Insulator-Foreman	59.52
Mechanical Insulator-General Foreman	62.81

MILLWRIGHT**ADD ZONE
RATE**

Millwright-Journeyman	49.95
Millwright-Welder	50.95
Millwright-Foreman	53.26
Millwright-General Foreman	56.90

OPERATING ENGINEER**SEE GROUP CLASSIFICATIONS****ADD ZONE RA**

Group 1	55.67
Group 2	56.62
Group 3	56.91
Group 4	58.40

Exhibit A – Prevailing Wage Oct 2010-Sept 2011

Group 5	59.50
Group 6	58.62
Group 7	59.72
Group 8	58.73
Group 9	59.83
Group 10	58.85
Group 11	59.95
Group 12	59.02
Group 13	59.12
Group 14	59.15
Group 15	59.23
Group 16	59.35
Group 17	59.52
Group 18	59.62
Group 19	59.73
Group 20	59.85
Group 21	60.02
Group 22	60.12
Group 23	60.23
Group 24	60.35
Group 25	60.52

Add \$.50 per hour for "Special" Shift

Add \$1.00 per hour for "Multiple" Shift

**OPERATING ENGINEER:
CRANES, PILEDRIVING, & HOISTING
EQUIPMENT**

SEE GROUP CLASSIFICATIONS

ADD ZONE RA

Group 1

Engineer Oiler	59.35
Forklift Operator	55.67

Group 2

Truck Crane Oiler	59.35
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Group 3

A-Frame or Winch Truck Operator	58.26
Ross Carrier Operator (Jobsite)	58.26

Group 4

Bridge-Type Unloader and Turntable Operator	58.40
Helicopter Hoist Operator	58.40

Group 5

Hydraulic Boom Truck (Pitman)	58.62
Stinger Crane (Austin-Western or Similar Type)	58.62
Tugger Hoist Operator (1 Drum)	58.62

Group 6

Exhibit A – Prevailing Wage Oct 2010-Sept 2011

Bridge Crane Operator	58.73
Cretor Crane Operator	58.73
Hoist Operator (Chicago Boom and Similar Type)	58.73
Lift Mobile Operator	58.73
Lift Slab Machine Operator (Vagtborg and Similar Types)	58.73
Material Hoist/Manlift Operator	58.73
Polar Gantry Crane Operator	58.73
Self Climbing Scaffold (or Similar Type)	58.73
Shovel, Backhoe, Dragline, Clamshell Operator (Over 3/4 YD. and up to 5 CU. YDS. M.R.C.)	58.73
Silent Piler	58.73
Tugger Hoist Operator (2 Drum)	58.73
<u>Group 7</u>	
Pedestal Crane Operator	58.85
Shovel, Backhoe, Dragline, Clamshell Operator (over 5 CU. YDS. M.R.C.)	58.85
Tower Crane Repairman	58.85
Tugger Hoist Operator (3 Drum)	58.85
<u>Group 8</u>	
Crane Operator (up to and including 25 ton capacity)	60.82
Crawler Transporter Operator	59.02
Derrick Barge Operator (up to and including 25 ton capacity)	59.02
Hoist Operator, Stiff Legs, Guy Derrick or Similar Type (up to and including 25 ton capacity)	59.02
Shovel, Backhoe, Dragline, Clamshell Operator (over 7 CU. YDS. M.R.C.)	59.02
<u>Group 9</u>	
Crane Operator (over 25 tons up to and including 50 tons M.R.C.)	60.82
Derrick Barge Operator (over 25 tons, up to and including 50 tons M.R.C.)	59.19
Highline Cableway Operator	59.19
Hoise Operator, Stiff Legs, Guy Derrick or Similar Type (over 25 tons, up to and including 50 tons M.R.C.)	59.19
K-Crane	59.19
Polar Crane Operator	59.19
Self Erecting Tower Crane Operator Maximum Lifting Capacity Ten (10) Tons. One (1) Ton Operator).	59.19
<u>Group 10</u>	

Exhibit A – Prevailing Wage Oct 2010-Sept 2011

Crane Operator (over 50 tons, up to and including 100 tons M.R.C.)	62.24
Derrick Barge Operator (over 50 tons, up to and including 100 tons M.R.C.)	60.19
Hoist Operator, Stiff Legs, Guy Derrick or Similar Type (over 50 tons, up to and including 100 tons M.R.C.)	60.19
Mobile Tower Crane Operator (over 50 tons, up to and including 100 tons M.R.C.)	62.24

Group 11

Crane Operator (over 100 tons, up to and including 200 tons M.R.C.)	62.74
Derrick Barge Operator (over 100 tons, up to and including 200 tons M.R.C.)	61.19
Hoist Operator, Stiff Legs, Guy Derrick or Similar Type (over 100 tons, up to and including 200 tons M.R.C.)	61.19
Mobile Tower Crane Operator (over 100 tons, up to and including 200 tons M.R.C.)	62.74
Tower Crane Operator and Tower Gantry	63.19

Group 12

Crane Operator (over 200 tons up to and including 300 tons M.R.C.)	65.38
Derrick Barge Operator (over 200 tons up to and including 300 tons M.R.C.)	62.19
Hoist Operator, Stiff Legs, Guy Derrick or Similar Type (over 200 tons up to and including 300 tons M.R.C.)	62.19
Mobile Tower Crane Operator (over 200 tons up to and including 300 tons M.R.C.)	65.38

Group 13

Crane Operator (over 300 tons)	66.75
Derrick Barge Operator (over 300 tons)	63.19
Helicopter Pilot	63.19
Hoist Operator, Stiff Legs, Guy Derrick or Similar Type (over 300 tons)	63.19
Mobile Tower Crane Operator (over 300 tons)	66.75
Add \$.50 per hour for "Special" Shift	-
Add \$1.00 per hour for "Multiple" Shift	-

OPERATING ENGINEER-SURVEYOR**SEE GROUP CLASSIFICATIONS****ADD ZONE
RATE**

Group 1	57.59
Group 2	58.40

Exhibit A – Prevailing Wage Oct 2010-Sept 2011

Group 3	58.62
Group 4	58.90
Group 5	59.02
Group 6	59.12
Group 7	59.15
Group 8	59.52
Group 9	59.65
Group 10	60.15

OPERATING ENGINEER -TUNNEL
SEE GROUP CLASSIFICATIONS

ADD ZONE RA

Group 1	57.52
Group 2	58.47
Group 3	58.76
Group 4	58.90
Group 5	59.12
Group 6	59.23
Group 7	59.35
Group 8	59.52
Group 9	59.65

PAINTER

Painter-Journeyman	46.64
Painter-Foreman	49.76

PILEDRIIVER

Driverman, Rigman, Bridge and Dock Carpenter	58.47
Certified Welder	58.47
Piledriver-Foreman	62.05
Diver-Diving (wet pay)	58.47
Stand-By Diver	58.47
Tender	58.47

PLASTERER**ADD ZONE RA**

Plasterer-Journeyman	44.69
Plasterer-Foreman	47.19
Plasterer-General Foreman	48.94

PLUMBER/PIPEFITTER**ADD ZONE RA**

Plumber/Pipefitter-Journeyman	56.52
Plumber-Foreman	60.38
Plumber-General Foreman	64.23

REFRIGERATION

Exhibit A – Prevailing Wage Oct 2010-Sept 2011

Refrigeration-Journeyman	35.17
Refrigeration-Foreman	35.17
Refrigeration-General Foreman	35.17
ROOFER	
(Does not include sheet metal roofs)	-
Roofer-Journeyman	31.91
Roofer-Foreman	36.86
SHEET METAL WORKER	<u>ADD ZONE RA</u>
Sheet Metal-Journeyman	59.52
Sheet Metal-Foreman	63.97
Sheet Metal-General Foreman	68.42
SPRINKLER FITTER	
Sprinkler Fitter-Journeyman	56.30
Sprinkler Fitter-Foreman	59.05
Sprinkler Fitter-General Foreman	61.30
TAPER	
Taper	46.64
TILE SETTER/TERRAZZO WORKER/MARBLE MASON	<u>ADD ZONE RA</u>
Tile Setter/Terrazzo Worker/Marble Mason- Finisher	35.13
Tile Setter	47.16
Terrazzo Worker/Marble Mason	49.79
TRAFFIC BARRIER ERECTOR	<u>ADD LABOREI</u>
Traffic Barrier Erector	42.94
TRUCK DRIVER	
<u>SEE GROUP CLASSIFICATIONS</u>	<u>ADD ZONE RA</u>
Group 1	46.13
Group 2	46.23
Group 3	46.44
Group 4	46.62
Group 5	46.82
Group 6	47.12
Foreman \$1.00 above highest paid journeyman supervised.	48.12
WELL DRILLER	

Well Driller	19.42
EQUIPMENT GREASER (RACK)	<u>ADD</u> <u>OPERATING</u> <u>ENGINEER</u> <u>ZONE RATE</u>
Equipment Greaser (rack)	56.91
EQUIPMENT GREASER (GREASE TRUCK)	<u>ADD</u> <u>OPERATING</u> <u>ENGINEER</u> <u>ZONE RATE</u>
Equipment Greaser (grease truck)	58.40
EQUIPMENT GREASER (GREASE TRUCK/MULTI-SHIFT)	<u>ADD</u> <u>OPERATING</u> <u>ENGINEER</u> <u>ZONE RATE</u>
Equipment Greaser (grease truck/multi-shift)	59.50
TUNNEL, EQUIPMENT GREASER (GREASE TRUCK)	<u>ADD</u> <u>OPERATING</u> <u>ENGINEER</u> <u>ZONE RATE</u>
Tunnel, Equipment Greaser (grease truck)	59.12
FIELD SOILS AND MATERIAL TESTER	<u>ADD</u> <u>OPERATING</u> <u>ENGINEER</u> <u>ZONE RATE</u>
Field Soils and Material Tester	56.62
FIELD ASPHALTIC CONCRETE (SOILS AND MATERIAL TESTER)	<u>ADD</u> <u>OPERATING</u> <u>ENGINEER</u> <u>ZONE RATE</u>
Field Asphaltic Concrete (soils and material tester)	56.62

9/22/2010

Job Descriptions for Recognized Classe

Regarding job descriptions for public works projects, please take notice of the following:

1. Pursuant to NAC 338.0095(1)(a), "A workman employed on a public work must be p actually performs on the public work and in accordance with the recognized class of
2. The work description for a particular class is not intended to be jurisdictional in scop worker from performing the work of one or more classes.
3. Any person who believes that a type of work is not classified, or who otherwise need job descriptions, shall contact the Labor Commissioner, in writing, for a determination of a particular type of work.
4. The job descriptions set forth or referenced herein supercede any and all descriptions in any settlement agreements or stipulations arising out of contested matters.
5. The following specific provisions, where applicable, shall prevail over any general provisions:
 - Amendments to the prevailing wage determinations;
 - Group Classifications and/or descriptions recognized by the Labor Commissioner for a particular type of work in a particular county.

AIR BALANCE TECHNICIAN, includes but is not limited to:

Inspecting, testing, programming, documenting, adjusting and balancing heating, cooling and equipment to attain performance standards specified in the design of the systems.

ALARM INSTALLER, includes but is not limited to:

1. Installing or testing electrical protective signaling systems used to provide notification of fire the subscriber of the system;
2. Installing of wiring and signaling units;
3. Repairing electrical protective signaling systems
4. Starting up, programming and documenting systems;

BOILERMAKER, includes but is not limited to:

1. Constructing, assembling, maintaining and repairing stationary steam boilers and boiler h
2. Aligning structures or plate sections to assemble boiler frame tanks or vats;
3. Assisting in the testing of assembled vessels, directing cleaning of boilers and boiler furna
4. Inspecting and repairing boiler fittings, including, without limitation, safety valves, regulat auxiliary machines.

BRICKLAYER, includes but is not limited to:

1. Laying materials, including without limitation, brick, structural tile and blocks of concrete, stone, to construct or repair walls, partitions, arches, sewers, and other structures;
2. Laying and aligning bricks, blocks or tiles to build or repair structures for high temperature

ovens and furnaces; and

3. Fastening or fusing brick or other building materials to structures with wire clamps, anchors
4. Pointing-cleaning-caulking of all types of masonry; caulking of window frames encased in including grinding and cutting out on such work and sand blasting, steam cleaning and grouting
5. Pointing, cleaning and weatherproofing of buildings, grain elevators and chimneys built of brick, sand blasting and gunite work on the same.

CARPENTER, includes but is not limited to:

1. Laying out, constructing, erecting, fabricating, installing and repairing structures and fixtures and hardware and the fastening of the same, inclusive of garage or overhead door opener systems using carpenter's hand tools and power tools;
2. Installing or erecting metal studs, drywall, lathing, wall partitions, prefabricated EIFS panels interior or exterior of any building or structure, insulation and all types of ceilings;
3. Pre-cast concrete and concrete form work which includes but is not limited to: setting of forms, erection, rigging and hoisting, stripping and removing of all forms which are to be reused;
4. Plywood decking, including, without limitation, stacking and installation of the plywood and sheathing;
5. Cutting, setting, removing of beam sides and soffits, bracing, and pads;
6. Constructing all wood panel forms and frame wall;
7. Building, erecting and disassembling self-supporting scaffolds that are more than 14 feet high;
8. Laying out, cutting, joining, fitting of Foam Architectural Elements if same are attached to structure;
9. Shaping, cutting and planing by any means if done by hand or machine.

CEMENT MASON, includes but is not limited to:

1. Smoothing and finishing surfaces of poured concrete floors, walls, sidewalks and curbs to grade;
2. Patching holes with fresh concrete or an epoxy compound;
3. Molding expansion joints and edges through the use of edging tools, jointers and straightedges;
4. Setting of curb and gutter forms one board high;

ELECTRONIC COMMUNICATION INSTALLER/TECHNICIAN, includes but is not limited to:

1. Pulling cable, installing and trimming devices, terminating loops, circuits, or other data gear;
2. Termination of main control panels, racks, or other head end equipment, as well as testing control panels and/or equipment;
3. Utilizing test equipment for the purpose of troubleshooting and verifying the integrity of the system;
4. Using hand tools to assemble and install data communication lines and equipment components;
5. Disassembling equipment to adjust, repair or replace parts using hand tools;
6. Starting up, programming and documenting systems;
7. Measuring, cutting, splicing, connecting, soldering and installing wire and cable associated with the system.

ELECTRONIC COMMUNICATION SENIOR INSTALLER/TECHNICIAN, includes but is not limited to:

May include the duties of the Installer/Technician; working with, supervising, and coordinating the work of the Installer/Technician.

ELECTRICIAN LINEMAN, includes but is not limited to:

1. Erecting and repairing wood poles and prefabricated light duty metal towers, cable and rebar and distribution power lines used to conduct electrical energy between generating station and load centers;
2. Directing and assisting electrician ground men in attaching cross arms, insulators, lightning rods and equipment to poles and towers in preparation of erecting the poles or towers;

3. Climbing erected poles or towers and installing equipment such as transformers
4. Strings wire conductors between erected poles with assistance of ground helpers and adjustment and elongation of conductors due to temperature variations, using winch.

ELECTRICIAN GROUNDMAN, includes but is not limited to:

1. Working under the direct supervision of linemen, including the operation of jackhammers
2. Loading and unloading of materials and equipment used by electrician lineman.
3. Does not include climbing poles, towers or other structures or working in the proximity of

ELECTRICIAN-NEON SIGN, includes but is not limited to:

1. Installing, servicing and repairing plastic, neon and illuminated signs;
2. Ascending ladders or operating hydraulic or electric hoist to install, service, or examine signs
3. Wiring, rewiring or removing defective parts and installing new parts using electrician's tools
4. Removing sign or part of sign for repairs, such as structural fabrication, scroll repair, or transfer

ELECTRICIAN WIREMAN, includes but is not limited to:

1. Laying out plans, installing, testing and repairing wiring, electrical fixtures, apparatus and equipment
2. Measuring, cutting, bending, threading, assembling and installing electrical conduit by using conduit threader, or conduit bender;
3. Pulling wiring through conduit;
4. Splicing wires;
5. Connecting wiring to lighting fixtures and power equipment;
6. Installing control and distribution apparatus, including, without limitation, switches, relays and control boxes in place;
7. Connecting power cables to equipment, including, without limitation, electric ranges and other appliances
8. Testing the continuity of a circuit to ensure electrical compatibility and safety of components; using, without limitation, an ohmmeter, a battery and buzzer, and an oscilloscope;
9. As necessary, cutting and welding steel structural members;
10. Handling and installation of all electrical equipment, appliances, apparatus and materials used in the execution of the contract for the public work.

ELEVATOR CONSTRUCTOR, includes but is not limited to:

1. Assembling, installing, repairing and maintaining electric and hydraulic freight and passenger elevators
2. Cutting pre-fabricated sections of framework, rails and other elevator components to specification and disc grinder;
3. Installing cables, counterweights, pumps, motor foundations, escalator drives, guide rails

FENCE ERECTOR, includes but is not limited to:

1. Erecting or repairing chain link, wooden, tortoise, wire/wire mesh, or temporary fencing;
2. Mixing and pouring concrete around bases of posts and tamping soil into post hole to embed posts
3. Digging post holes with a spade, post hole digger or power driven auger;
4. Aligning posts through the use of lines or by sighting;
5. Verifying vertical alignment of posts with a plumb bob or spirit level;

FLAG PERSON, includes but is not limited to:

1. Directing movement of vehicular traffic through construction projects;
2. Distributing traffic control signs and markers along site in designated pattern;
3. Informing drivers of detour routes through construction sites;

FLOOR COVERER, includes but is not limited to:

1. Applying blocks, strips or sheets of shock-absorbing, sound-deadening or decorative covering;
2. Measuring and cutting covering materials, such as rubber, linoleum, astro-turf, or cork tile straightedge, linoleum knife and snips;
3. Spreading adhesive cement over floor to cement foundation material to floor for sound-dead board joints;
4. Rolling finished floors to smooth the floor and press cement into base and covering;
5. Fitting of devices for the attachment of carpet, linoleum, rubber and all resilient floor covering used in the installation of the foregoing materials and all other preparatory work;

GLAZIER, includes but is not limited to:

1. Installing, setting, cutting, preparing, or removal of glass, or materials used in lieu thereof showers, bathtubs, skylights and display cases;
2. Installing glass on surfaces, including, without limitation, fronts of buildings, interior walls;
3. Installing pre-assembled framework for windows and doors designed to be fitted with glass hand tools;
4. Loading and arranging glass, or materials used in lieu thereof, on trucks at the site of the

HIGHWAY STRIPER, includes but is not limited to:

1. Painting highways, streets and parking surfaces by using manually propelled or mechanical guns;
2. Installing any device or application of any material used in lieu of paint for traffic direction rumble bars and other similar materials;

HOD CARRIER-BRICK MASON TENDER, includes but is not limited to:

1. Tending to or assisting brick masons, bricklayers and stonemasons;
2. Mixing, packing, wheeling and tempering mortar and fire clay;
3. Mixing, supplying and holding materials or tools;
4. Mixing, handling and conveying all other materials used by brick masons, bricklayers and
5. Building scaffolds, trestles, boxes and swinging staging used exclusively by bricklayers and
6. Hanging cables and placing putlogs;
7. Carrying bricks and mortar in a hod;
8. Cleaning work area and equipment of bricklayers and stone masons

HOD CARRIER-PLASTERER TENDER, includes but is not limited to:

1. Serving Plasterers in any capacity;
2. Handling materials after the materials are delivered as used by a Plasterer;
3. Building and handling all necessary trestle, scaffolding and planking of scaffolding for the
4. Building mortar boxes, mortar boards and stands.

IRONWORKER, includes but is not limited to:

1. Performing duties, as part of a crew, to raise, place and unite girders, columns and other or structure frameworks;
2. Setting up hoisting equipment for raising and placing structural steel members;
3. Fastening steel members to cable of hoist, using chains, cable or rope;
4. Forcing steel members into final position using turnbuckles, crowbars, jacks, hand tools;
5. Aligning rivet holes in steel members with corresponding holes in previously placed steel through holes;
6. Bolting aligned steel members to keep them in position until the steel members can be pe
7. Cutting and welding steel members;
8. Installing and repairing gates, iron doors, flagpoles, iron fences and roof decking;
9. Installing corrugated sheets when attached to steel frames;
10. Stud welding of all iron, steel and metal to structural steel;
11. Handling and setting of steel and metal joists;
12. Loading, unloading, hoisting, handling, signaling, placing and erecting of pre-stressed an
13. Handling, racking, sorting, cutting, bending, hoisting, placing, burning, welding and tying :

LABORER, includes but is not limited to:

Perform tasks involving physical labor at building, highway, and heavy construction projects, tu sites. May operate hand and power tools of all types: air hammers, earth tampers, cement mixi equipment and instruments. May clean and prepare sites, dig trenches, set braces to support t rubble and debris, and remove asbestos, lead, and other hazardous waste materials. May assi

MARBLE MASON, includes but is not limited to:

1. Cutting, tooling, and setting marble slabs in floors and walls of buildings and renovating a
2. Trimming, facing and cutting marble to a specific size using a power saw, cutting and faci
3. Drilling holes in marble slabs and attaching brackets;
4. Spreading mortar on the bottom and sides of a marble slab and on the side of adjacent m
5. Setting blocks in positions, tamping a marble slab into place and anchoring bracket attac
6. Filling joints between marble slabs with grout and removing excess grout with a sponge;
7. Cleaning and beveling cracks and chips on marble slabs using hand tools and power tool
8. Heating cracked or chipped areas of a marble slab with a blowtorch and filling the defect marble slab; and
9. Polishing marble slabs and other ornamental stone to a high luster by using hand tools ar

MECHANICAL INSULATOR, includes but is not limited to:

1. Covering and lining structures with cork, canvas, tar paper, magnesia and related materia
2. Installing blown-on insulation on pipe and machinery;
3. Lining of mechanical room surfaces and air handling shafts;
4. Filling and damming of fire stops and penetrations including, but not limited to, electrical :
5. Foam applications for the purpose of thermal, acoustical, or fire protective purposes, inclu or electrical systems;
6. Duct lining and duct wrapping, direct application and installation of fire protection of greas acoustical or thermal purposes;
7. Insulation of field joints on pre-insulated underground piping and the pouring of Gilsilite or
8. The application of material, including metal and PVC jacketing, on piping, fittings, valves, equipment and any other hot or cold surface for the purpose of thermal control;

MILLWRIGHT, includes but is not limited to:

1. Installing machinery and equipment according to layout plans, blueprints and other drawings; trucks, hand tools and power tools;
2. Dismantling machines by using hammers, wrenches, crowbars and other hand tools;
3. Assembling and installing equipment, including, without limitation, shafting, conveyors, m tools;
4. Constructing foundations for machines by using hand tools and building materials, including;
5. Assembling machines and bolting, welding, riveting or otherwise fastening them to a foundation using power tools; and
6. Repairing and lubricating machines and equipment (at the site of the public work) assembl

OPERATING ENGINEER, includes but is not limited to:

Operate one or several types of power construction equipment, such as motor graders, bulldozers, tractors, or front-end loaders to excavate, move, and grade earth, erect structures, or pour concrete.

PAINTER, includes but is not limited to:

1. All painting of walls, equipment, buildings, bridges and other structural surfaces by using brushes, rollers, or sprayers;
2. Application of wall coverings/wall paper;
3. Removing old paint to prepare surfaces before painting the surface;
4. Mixing colors or oils to obtain desired color or consistency;
5. Sanding surfaces between coats and polishing final coat to a specified finish;
6. Cutting stencils and brushing and spraying lettering and decorations on surfaces;
7. Washing and treating surfaces with oil, turpentine, mildew remover or other preparations;
8. Filling cracks, holes and joints with caulk, putty, plaster or other filler by using caulking gun.

PILEDRIIVER, includes but is not limited to:

1. Operating pile drivers mounted on skids, barge, crawler, treads or locomotive crane to drive piles without limitation, buildings, bridges and piers;
2. Barking, shoeing, splicing, form building, heading, centering, placing, driving, staying, framing and cutting off of piling;
3. Fabricating, forming, handling and setting of all such pre-cast, pre-stressed and post-stressed concrete wharves, bulkheads, jetties, and similar structures;

PIPEFITTER, includes but is not limited to:

Assembling, installing, modifying and maintaining pipe systems, pipe supports and pneumatic components for steam, hot water, heating, cooling, lubricating, sprinkling and industrial and process piping.

- a. Cutting, threading and hammering pipe to specifications using tools, including, without limitation, pipe benders;
- b. Attaching pipes to walls, structures and fixtures, including without limitation, radiators or tanks and equipment;
- c. Coating non-ferrous piping materials by dipping in mixture of molten tin and lead to prevent corrosion.

PLASTERER, includes but is not limited to:

1. Applying coats of plaster onto interior or exterior walls, ceilings, or partitions of buildings to architects' drawings and oral instruction;
2. Creating decorative textures in finish coat by using sand, pebbles or stones;
3. Installing guide wires on exterior surfaces of buildings to indicate thickness of plaster or s
4. Applying weatherproof, decorative covering to exterior surfaces of a building;
5. Molding and installing ornamental plaster pieces, panels and trim;
6. Directing workers to mix plaster to a desired consistency;
7. Assembly of EFIS panels;
8. Laying out, cutting, joining, fitting and installation of Architectural Foam Elements which a
9. Applying, shaping, cutting, and planing in preparation for netting done by hand or machin
10. All plaster or synthetic finishes applied to Foam Architectural Elements

PLUMBER, includes but is not limited to:

Assembling, installing and repairing pipes, fittings and fixtures for heating, water and drainage outside of buildings which may therein require:

- a. Repairing and maintaining plumbing by replacing defective washers, repairing or mending
- b. Assembling pipe sections, tubing and fittings by using screws, bolts, solder, plastic solver
- c. Installing pipe assemblies, fittings, valves and fixtures, including, without limitation, sinks,
- d. Cutting openings in structures, excluding concrete, to accommodate pipe and pipe fittings
- e. Filling pipes and plumbing fixtures with water or air and observing pressure gauges to de

REFRIGERATION MECHANIC, includes but is not limited to:

1. Installing and repairing industrial and commercial refrigeration systems;
2. Mounting compressors, condensers and other refrigeration components to the frame of a equipment;
3. Assembling structural and functional components needed for refrigeration, including, with harnesses, valves, pumps, compressors, condensers, cores and pipes;
4. Installing expansion and control valves by using hand tools and acetylene welding equipm
5. Cutting, bending, threading and connecting pipe from functional components to water, po
6. Fabricating and assembling components and structural portions of a refrigeration system;

ROOFER, includes but is not limited to:

1. Installing and covering roofs and structures with slate, asphalt, wood and other related m knives, punches, hammers and other tools;
2. Spraying roofs, sidings and walls with material to bind, seal, insulate or soundproof sectic
3. Installation of all plastic, slate, slag, gravel, asphalt and composition roofing, and rock asp
4. Installation of all damp resisting preparations when applied on roofs with mop, three-knot
5. All types of preformed panels used in waterproofing;
6. Handling, hoisting and storing of all roofing, damp and waterproofing materials;
7. The tear-off and/or removal of roofing and roofing materials;

SHEET METAL WORKER, includes but is not limited to:

1. Fabricating, assembling, dismantling, installing or repairing:
 - o Sheet metal roofs, including #30 felt roofing paper installed to form a metal roofing s
 - o Sheet metal parts or equipment, including, without limitation, duct work, metal locke

- Air-veyor and air-handling systems, regardless of materials used;
- 2. Setting up and operating fabrication machines to cut, bend and straighten sheet metal;
- 3. Shaping metal over anvils, blocks or forms using a hammer;
- 4. Operating soldering and welding equipment to join sheet metal parts;
- 5. Inspecting, assembling and smoothing seams and joints of burred surfaces;
- 6. Welding, soldering, bolting, riveting, screwing, clipping, caulking or bonding component parts and devices for lifting and handling;

SPRINKLER FITTER, includes but is not limited to:

Installing, dismantling, maintaining, repairing, adjusting and correcting all fire protection and fire tubing, appurtenances and equipment pertaining thereto, including both overhead and underground standpipes and hose connection to sprinkler systems, sprinkler tank heaters, air lines and fire alarm systems.

SURVEYOR, includes but is not limited to:

1. Planning ground surveys designed to establish base lines, elevation and other geodetic data;
2. Compiling data relevant to the shape, contour, gravitation, location, elevation and dimensions of the Earth for engineering, map making, mining, land evaluation, construction and other purposes;
3. Surveying bodies of water to determine navigable channels and to secure data for construction of structures;
4. Computing data necessary for driving and connecting underground passages, underground

TAPER, includes but is not limited to:

1. Sealing joints between plasterboard or other wallboards to prepare a wall surface for painting;
2. Mixing sealing compound by hand or with a portable electric mixer and spreading the compound with a broad knife, or spatula;
3. Filling cracks and holes in walls and ceilings with sealing compound ;
4. Applying texturing compound and primer to walls and ceiling to prepare a surface for a finish;
5. Coating of joint compound or taping mud;

TERRAZZO WORKER, includes but is not limited to:

1. Applying cement, sand, pigment and marble chips to floors and stairways to attain durable finish according to drawings;
2. Spreading mixtures of sand, cement and water over surface with a trowel to form terrazzo base;
3. Cutting metal division strips and pressing the metal division strips into a terrazzo base so as to define level of finished floor surface;
4. Spreading mixtures of marble chips, cement, pigment and water over a terrazzo base to form finish;
5. Pre-casting terrazzo blocks in wooden forms.

TILE SETTER, includes but is not limited to:

1. Applying tile and materials made for tile in tile-like units to walls, floors, ceilings and prominent surfaces;
2. Applying glazed, unglazed, mosaic and other ceramic tiles, which are used as a surface covering, and must be set to specific grade;
3. Applying and floating all setting beds into which glazed, unglazed, mosaic, or other ceramic tiles are set;
4. Leveling and plumbing tiles to a specified grade.

TILE, TERRAZZO AND MARBLE FINISHER, includes but is not limited to:

1. Supplying and mixing construction materials for a tile setter, terrazzo worker or marble se
2. Applying grout and finishing the surface of installed tile, terrazzo and marble;
3. Cleaning installed tile, terrazzo and tile surfaces;
4. Renovation and filling chipped, cracked and broken pieces of tile, terrazzo and marble;
5. Grinding and polishing tile, terrazzo and marble;
6. Assisting a tile setter, terrazzo worker or marble setter;

TRAFFIC BARRIER ERECTOR, includes but is not limited to:

Erects or places instruments to provide directional assistance to traffic on or near the public wo

TRUCK DRIVER, includes but is not limited to:

Driving a tractor trailer combination or a truck transport goods or materials at the site of a publi
(Also, see descriptions listed with Truck Driver rates, if any)

WELL DRILLER, includes but is not limited to:

1. Setting, operating or tending to portable drilling rig machinery and related equipment to di
2. Extending stabilizing jackscrews to support and level a drilling rig;
3. Installing water well pumps;
4. Drillings wells for industrial water supplies, irrigation water supplies or water supplies for a
purposes; exploration; hole drilling for geologic and hydrologic information; and core drillin

GROUP CLASSIFICATIONS
LABORERGroup 1

Construction Clean-Up

Dry packing of concrete & filling of form bolt holes

File grader, highway & street paving, airport runways & similar type heavy construction

Gas & oil pipeline laborer

Guinea chaser

Laborer, demolition or general construction ("General construction" does not include work othe

Laborer, packing rod steel & pans

Laborer, temporary water lines (portable type)

Landscape gardener

Nurseryman

Tarman and mortarman, kettleman, potman and man applying asphalt, lay-kold creosote, fine,

Underground laborer, including caisson bellows

Scaffold Erector (under 14 ft.)

Landscape Decorative rock Installer – (Ponds, Waterfalls, Etc.)

Materials Handler – (incidental to trade)

Tool Crib

Light Crib

Light Tool Repairman

Landscape Gardener (Must have knowledge of plant materials and how to plant them. Lays out Mechanical Stabilized Earth Wall
Construction Clean Up
Certified Firewatch

Group 2

Asphalt raker, ironer, spreader, luteman
Buggymobile man
Cement dumper (on one yard or larger mixers & handling bulk cement)
Cesspool digger and installer
Chucktender (except tunnels)
Concrete core cutter
Concrete curer, impervious membrane and oiler of all materials
Concrete saw man, excluding tractor type, cutting, scoring old or new concrete
Gas and oil wrapper, pot tender and form man
Making and caulking of all non-metallic pipe joints
Operators and tenders of pneumatic and electric tools, vibrating machines, hand propelled trench mechanical tools not separately classified herein
Operator of cement grinding machine
Riprap stonepaver
Roto-scraper
Sandblaster (pot tender)
Scaler
Septic tank digger and installer (lead man)
Tank scaler and cleaner
Tree climber, faller, chain saw operator, Pittsburgh chipper and similar type brush shredders

Group 3

Cutting torch operator
Gas and oil pipeline wrapper
Gas and oil pipeline laborer, certified
Jackhammer and/or pavement breaker
Laying of all non-metallic pipe, including landscape sprinklers, sewer pipe, drain pipe and underground
Mudcutter
Concrete vibrator operator, all sizes
Rock slinger
Scaler (using bos'n chair or safety belt or power tools)
Forklift (Incidental to Trade) – A journeyman shall hold OSHA certification at time of referral
Laying of all metallic and non-metallic pipe, p.v.c. and duct bank, including landscape sprinkler
Cement dumper (on one yard or larger mixers and handling bulk cement)
Concrete core cutter
Concrete curer, impervious membrane and oiler of all materials
Decorative rock installer (ponds, waterfalls, etc.)
Shotcrete/gunite

Group 4

Cribber or shorer, lagging, sheeting, trench bracing, hand guided lagging hammer
Head rock slinger
Powderman-blaster, all work of loading holes, placing and blasting of all powder and explosives such as loading and placing
Sandblaster (nozzleman)
Steel header-board man

Group 5

Driller (core, diamond or wagon)

Joy driller model TW-M-2A, Gardner-Denver model DH 143 and similar type drills (in accordance with Laborers and Operating Engineers dated Miami, Florida, February 3, 1954)

Gas and oil pipeline fusion

Gas and oil pipeline wrappers, 6" pipe and over

Group 6

Miner and Bullgang

Group 7

Asbestos Abatement

Lead Abatement

Hazardous Waste Abatement

Petro-Chemical Abatement

Radiation Remediation

Microbial Remediation

\$.50 wage rate above group III when wearing protective suite or respirator

Employees shall be properly certified and/or licensed at time of dispatch.

OPERATING ENGINEER, includes but is not limited to:

Group 1

Bargeman

Blade Operator Assistant

Brakeman

Compressor Operator

Ditch Witch, with seat or similar type equipment

Elevator Operator - inside

Engineer Oiler

Forklift Operator (under 5 Tons)

Generator Operator

Generator, Pump or Compressor Plant Operator

Pump Operator

Signalman

Steam Cleaner/Pressure Washer

Switchman

Group 2

Asphalt-Rubber Plant Operator (Nurse Tank Operator)

Concrete Mixer Operator - Skip type

Conveyor Operator

Fireman

Forklift Operator (over 5 Tons)

Hydrostatic Pump Operator

Oiler Crusher (Asphalt or Concrete Plant)

PJU Side Dump Jack

Rotary Drill Helper (Oilfield)

Screening and Conveyor Machine Operator (or similar types)

Skiploader (wheel type up to ¾ yd. without attachment)

Tar Pot Fireman

Temporary Heating Plant Operator
Trenching Machine Oiler

Group 3

Asphalt-Rubber Blend Operator
Bobcat or similar type (Skid Steer)
Ford Ferguson (with dragtype attachments)
Helicopter Radioman (ground)
Stationary Pipe Wrapping and Cleaning Machine Operator

Group 4

Asphalt Plant Fireman
Backhoe Operator (Mini-Max or similar type)
Boring Machine Operator
Boring System Electronic Tracking Locator
Boxman or Mixerman (Asphalt or Concrete)
Chip Spreading Machine Operator
Concrete Cleaning Decontamination Machine Operator
Concrete Pump Operator (small portable)
Drilling Machine Operator, Small Auger Types (Texoma Super
Economatic, or similar types - Hughes 100 or 200, or similar
types - drilling depth of 30' maximum)
Guard Rail Post Driver Operator
Highline Cableway Signalman
Horizontal Directional Drilling Machine
Hydra-Hammer-Aero Stomper
Micro Tunneling (above ground tunnel)
Power Concrete Curing Machine Operator
Power Concrete Saw Operator
Power - Driven Jumbo Form Setter Operator
Power Sweeper Operator
Rock Wheel Saw/Trencher
Roller Operator (compacting)
Screed Operator (Asphalt or Concrete)
Trenching Machine Operator (up to 6 ft.)
Vacuum or Muck Truck

Group 5

No current classification

Group 6

Articulating Material Hauler
Asphalt Plant Engineer
Batch Plant Operator
Bit Sharpener
Concrete Joint Machine Operator (canal and similar type)
Concrete Planer Operator
Dandy Digger
Deck Engine Operator
Derrickman (Oilfield type)
Drilling Machine Operator, Bucket or Auger Types (Calweld 100

Bucket or similar types - Watson 1000 Auger or similar types -
Texoma 330, 500 or 600 Auger or similar types - drilling depth
of 45' maximum)
Drilling Machine Operator (including water wells)
Hydrographic Seeder Machine Operator (straw, pulp or seed)
Jackson Track Maintainer, or similar type
Kalamazoo Switch Tamper, or similar type
Machine Tool Operator
Maginnis Internal Full Slab Vibrator
Mechanical Berm, curb or gutter (concrete or asphalt)
Mechanical Finisher Operator (concrete, Clary-Johnson-Bidwell or
similar)
Micro Tunnel System (below ground)
Pavement Breaker Operator (truck mounted)
Road Oil Mixing Machine Operator
Roller Operator (asphalt or finish)
Rubber-Tired Earth Moving Equipment (single engine, up to and
including 25 yds. struck)
Self-Propelled Tar Pipelining Machine Operator
Skiploader Operator (crawler and wheel type, over ¾ yd. and up
to and including 1½ yds.)
Slip Form Pump Operator (power driven hydraulic lifting device
for concrete forms)
Tractor Operator - Bulldozer, Tamper-Scraper (single engine, up
to 100 h.p. flywheel and similar types, up to and including
D-5 and similar types)
Tugger Hoist Operator (1 drum)
Ultra High Pressure Waterjet Cutting Tool System Operator
Vacuum Blasting Machine Operator
Welder - General

Group 7

Welder - General (Multi-Shift)

Group 8

Asphalt or Concrete Spreading Operator (Tamping or Finishing)
Asphalt Paving Machine Operator (Barber Greene or similar type)
Asphalt-Rubber Distributor Operator
Backhoe Operator (up to and including ¾ yd.) Small Ford, Case
or similar.
Cast in Place Pipe Laying Machine Operator
Combination Mixer and Compressor Operator (Guniting Work)
Compactor Operator - self propelled
Concrete Mixer Operator - Paving
Crushing Plant Operator (Non Portable)
Drill Doctor
Drilling Machine Operator, Bucket or Auger Types (Calweld 150
Bucket or similar types - Watson 1500, 2000, 2500 Auger or
similar types - Texoma 700, 800 Auger or similar types -
drilling depth of 60' maximum)
Elevating Grader Operator

Grade Checker
Gradall Operator
Grouting Machine Operator
Heavy Duty Repairman
Heavy Equipment Robotics Operator
Kalamazoo Balliste Regulator or similar type
Kolman Belt Loader and similar type
Le Tourneau Blob Compactor or similar type
Loader Operator (Athey, Euclid, Sierra and similar types)
Master Environmental Maintenance Mechanic
Mobark Chipper or similar types
Ozzie Padder or similar types
PC 490 Slot Saw
Pneumatic Concrete Placing Machine Operator (Hackley-Presswell or similar type)
Portable Crushing Plant Operator
Pumpcrete Gun Operator
Rock Drill or similar types
Rotary Drill Operator (excluding Caison type)
Rubber-Tired Earth Moving Equipment Operator (single engine, Caterpillar, Euclid, Athey Wagon, and similar types with any and all attachments over 25 yds. and up to and including 50 cu. yds. struck)
Rubber-Tired Earth Moving Equipment Operator (multiple engine - up to and including 25 yds. struck)
Rubber-Tired Scraper Operator (self-loading paddle wheel type - John Deere, 1040 and similar single unit)
Self-Propelled Curb and Gutter Machine Operator
Shuttle Buggy
Skiploader Operator (crawler and wheel type over 1½ yds. up to and including 6½ yds.)
Soil Remediation Plant Operator (C.M.I. Enviro Tech Thermal or Similar Types) (Oiler Require
Surface Heaters and Planer Operator
Tractor Compressor Drill Combination Operator
Tractor Operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar - Bulldozer, Tamper, Scraper and Push Tractor, single engine)
Tractor Operator (boom attachments)
Traveling Pipe Wrapping, Cleaning and Bending Machine Operator
Trenching Machine Operator (over 6 ft. depth capacity, manufacturer's rating
Trenching Machine with Road Miner Attachment (over 6 ft. depth capacity, manufacturer's rating
Ultra High Pressure Waterjet Cutting Tool System Mechanic
Water Pull (compaction)

Group 9

Heavy Duty Repairman (Multi-Shift)

Group 10Drilling Machine Operator, Bucket or Auger Types (Calweld 200 B
Bucket or similar types - Watson 3000 or 5000 Auger or similar

types - Texoma 900 Auger or similar types - drilling depth of 105' maximum)
Dual Drum Mixer
Heavy Duty Repairman-Welder Combination
Monorail Locomotive Operator (diesel, gas or electric)
Motor Patrol - Blade Operator (single engine)
Multiple Engine Tractor Operator (Euclid and similar type - except Quad 9 Cat.)
Pneumatic Pipe Ramming Tool and similar types
Pre-Stressed Wrapping Machine Operator (2 Operators required)
Rubber-Tired Earth Moving Equipment Operator (single engine, over 50 yds. struck)
Rubber-Tired Earth Moving Equipment Operator (multiple engine, Euclid, Caterpillar and similar - over 25 yds. and up to 50 yds. struck)
Tower Crane Repairman
Tractor Loader Operator (crawler and wheel-type over 6½ yds.)
Welder-Certified
Woods Mixer Operator (and similar Pugmill equipment)

Group 11

Dynamic Compactor LDC350 (or similar types)
Heavy Duty Repairman-Welder Combination (Multi-Shift)
Welder-Certified (Multi-Shift)

Group 12

Auto Grader Operator
Automatic Slip Form Operator
Drilling Machine Operator, Bucket or Auger Types (Calweld, Auger 200 CA or similar types - Watson, Auger 6000 or similar types- Hughes Super Duty, Auger 200 or similar types - drilling depth of 175' maximum)
Hoe Ram or similar with Compressor
Mass Excavator Operator - Less than 750 cu. yds.
Mechanical Finishing Machine Operator
Mobile Form Traveler Operator
Motor Patrol Operator (multi-engine)
Pipe Mobile Machine Operator
Rubber-Tired Earth Moving Equipment Operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)
Rubber-Tired Self-Loading Scraper Operator (paddle-wheel-Auger type self-loading - two (2) or more units)
Vermeer Rock Trencher (or similar type)

Group 13

Rubber-Tired Earth Moving Equipment Operator, operating equipment with the Push-Pull System (single engine, up to and including 25 yds. struck)

Group 14

Canal Liner Operator (not less than four (4) employees -
Operator, Oiler, Welder, Mechanic, Grade Checker required)
Canal Trimmer Operator
Remote Controlled Earth Moving Equipment Operator (no one (1)
Operator shall operate more than two (2) pieces of earth
moving equipment at one time - One Dollar (\$1.00) per hour
additional to base rate)
Wheel Excavator Operator (over 750 cu. yds. per hour)

Group 15

Rubber-Tired Earth Moving Equipment Operator, operating equipment
with the Push-Pull System (single engine, Caterpillar, Euclid,
Athey Wagon, and similar types with any and all attachments
over 25 yds. and up to and including 50 cu. yds. struck)
Rubber-Tired Earth Moving Equipment Operator, operating equipment
with the Push-Pull System (multiple engine - up to and
including 25 yds. struck)

Group 16

Rubber-Tired Earth Moving Equipment Operator, operating equipment
with the Push-Pull System (single engine, over 50 yds. struck)
Rubber-Tired Earth Moving Equipment Operator, operating equipment
with the Push-Pull System (multiple engine, Euclid,
Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

Group 17

Rubber-Tired Earth Moving Equipment Operator, operating equipment
with the Push-Pull System (multiple engine, Euclid,
Caterpillar and similar type, over 50 cu. yds. struck)
Tandem Tractor Operator (operating crawler type tractors in
tandem - Quad 9 and similar type)

Group 18

Rubber-Tired Earth Moving Equipment Operator, operating in Tandem
(scrapers, belly dumps, and similar types in any combination,
excluding compaction units - single engine, up to and
including 25 yds. struck)

Group 19

Rotex Concrete Belt Operator (or similar types)
Rubber-Tired Earth Moving Equipment Operator, operating in Tandem
(scrapers, belly dumps, and similar types in any combination,
including compaction units - single engine, Caterpillar,
Euclid, Athey Wagon, and similar types with any and all
attachments over 25 yds. and up to and including 50 cu. yds.
struck)

Rubber-Tired Earth Moving Equipment Operator, operating in Tandem
(scrapers, belly dumps, and similar types in any combination,
excluding compaction units - multiple engine, up to and

including 25 yds. struck)

Group 20

Rubber-Tired Earth Moving Equipment Operator, operating in Tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck)

Rubber-Tired Earth Moving Equipment Operator, operating in Tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

Group 21

Rubber-Tired Earth Moving Equipment Operator, operating in Tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

Group 22

Rubber-Tired Earth Moving Equipment Operator, operating equipment with the Tandem Push-Pull System (single engine, up to and including 25 yds. struck)

Group 23

Rubber-Tired Earth Moving Equipment Operator, operating equipment with the Tandem Push-Pull System (single engine, Caterpillar, Euclid, Athey Wagon, and similar types with any and all attachments over 25 yds. and up to and including 50 cu. yds. struck)

Rubber-Tired Earth Moving Equipment Operator, operating equipment with the Tandem Push-Pull System (multiple engine, up to and including 25 yds. struck)

Group 24

Rubber-Tired Earth Moving Equipment Operator, operating equipment with the Tandem Push-Pull System (single engine, over 50 yds. struck)

Rubber-Tired Earth Moving Equipment Operator, operating equipment with the Tandem Push-Pull System (multiple engine, Euclid, Caterpillar and similar, over 25 yds. & up to 50 yds. struck)

Group 25

Concrete Pump Operator - truck mounted (Oiler required when boom over 105' or 36 meters)

Rubber-Tired Earth Moving Equipment Operator, operating equipment with the Tandem Push-Pull System (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

OPERATING ENGINEER-CRANES, PILEDIVING AND HOISTING EQUIPMENT

Group 1

Engineer Oiler
Forklift Operator

Group 2

Truck Crane Oiler

Group 3

A-Frame or Winch Truck Operator
Ross Carrier Operator (jobsite)

Group 4

Bridge-Type Unloader and Turntable Operator
Helicopter Hoist Operator

Group 5

Hydraulic Boom Truck (Pitman)
Stinger Crane (Austin-Western or similar type)
Tugger Hoist Operator (1 drum)

Group 6

Bridge Crane Operator
Cretor Crane Operator
Hoist Operator (Chicago Boom and similar type)
Lift Mobile Operator
Lift Slab Machine Operator (Vagtborg and similar types)
Material Hoist/Manlift Operator
Polar Gantry Crane Operator
Self Climbing Scaffold (or similar type)
Shovel, Backhoe, Dragline, Clamshell Operator (over 3/4 yd. and up to 5 cu. yds. M.R.C.)
Silent Piler
Tugger Hoist Operator (2 drum)

Group 7

Pedestal Crane Operator
Shovel, Backhoe, Dragline, Clamshell Operator (over 5 cu. yds. M.R.C.)
Tower Crane Repairman
Tugger Hoist Operator (3 drum)

Group 8

Crane Operator (up to and including 25 ton capacity)
Crawler Transporter Operator
Derrick Barge Operator (up to and including 25 ton capacity)
Hoist Operator, Stiff Legs, Guy Derrick or similar type (up to and including 25 ton capacity)
Shovel, Backhoe, Dragline, Clamshell Operator (over 7 cu. yds. M.R.C.)

Group 9

Crane Operator (over 25 tons, up to and including 50 tons M.R.C.)
Derrick Barge Operator (over 25 tons, up to and including 50 tons M.R.C.)
Highline Cableway Operator
Hoist Operator, Stiff Legs, Guy Derrick or similar type (over 25 tons, up to and including 50 ton

K-Crane
Polar Crane Operator
Self-Erecting Tower Crane Operator Maximum Lifting Capacity ten (10) tons. One (1) ton oper

Group 10

Crane Operator (over 50 tons, up to and including 100 ton M.R.C.)
Derrick Barge Operator (over 50 tons, up to and including 100 ton M.R.C.)
Hoist Operator, Stiff Legs, Guy Derrick or similar type (over 50 tons, up to and including 100 ton M.R.C.)
Mobile Tower Crane Operator (over 50 tons, up to and including 100 ton M.R.C.)

Group 11

Crane Operator (over 100 tons, up to and including 200 ton M.R.C.)
Derrick Barge Operator (over 100 tons, up to and including 200 ton M.R.C.)
Hoist Operator, Stiff Legs, Guy Derrick or similar type (over 100 tons, up to and including 200 ton M.R.C.)
Mobile Tower Crane Operator (over 100 tons, up to and including 200 ton M.R.C.)
Tower Crane Operator and Tower Gantry

Group 12

Crane Operator (over 200 tons, up to and including 300 ton M.R.C.)
Derrick Barge Operator (over 200 tons, up to and including 300 ton M.R.C.)
Hoist Operator, Stiff Legs, Guy Derrick or similar type (over 200 tons, up to and including 300 ton M.R.C.)
Mobile Tower Crane Operator (over 200 tons, up to and including 300 ton M.R.C.)

Group 13

Crane Operator (over 300 tons)
Derrick Barge Operator (over 300 tons)
Helicopter Pilot
Hoist Operator, Stiff Legs, Guy Derrick or similar type (over 300 tons)
Mobile Tower Crane Operator (over 300 tons)

SURVEYOR GROUP CLASSIFICATIONS

Group 1

Chainman

Group 2

Rodman

Group 3

Instrument man

Group IV

Global Position Systems Chainman and Rodman
Hydrographic Engineering Technician I (Chainman)

Group V

Party Chief

Group VI

E.D.M. or Fathometer Instrument man

Group VII

Certified Party Chief

Group VIII

Hydrographic Engineer Party Chief

Group IX

Certified Hydrographic Engineer Party Chief

Global Position Systems Party Chief

Group X

Chief of Parties

Two (2) or more crews

OPERATING ENGINEER-Tunnel

Group 1

Heavy Duty Repairman Helper

Group 2

Skiploader (wheel type up to $\frac{3}{4}$ yd. without attachment)

Group 3

Power - Driver Jumbo Form Setter Operator

Group 4

Dinkey Locomotive or Motorman (up to and including 10 tons)

Group 5

Bit Sharpener

Equipment Greaser (Grease Truck)

Slip Form Pump Operator (power driven hydraulic lifting device
for concrete forms)

Tugger Hoist Operator (1 drum)

Tunnel Locomotive Operator (over 10 and up to and including 30
tons)

Welder - General

Group 6

Backhoe Operator (up to and including $\frac{3}{4}$ yd.) Small Ford, Case
or similar

Drill Doctor

Grouting Machine Operator

Heading Shield Operator

Heavy Duty Repairman

Jumbo Pipe Carrier

Loader Operator (Athey, Euclid, Sierra and similar types)

Mucking Machine Operator ($\frac{1}{4}$ yd.)

Pneumatic Concrete Placing Machine Operator (Hackley-Presswell or
similar type)

Pneumatic Heading Shield (tunnel)

Pumpcrete Gun Operator
Tractor Compressor Drill Combination Operator
Tugger Hoist Operator (2 drum)
Tunnel Locomotive Operator (over 30 tons)

Group 7

Heavy Duty Repairman-Welder Combination

Group 8

No current classification

Group 9

Tunnel Mole Boring Machine Operator

TRUCK DRIVER, includes but is not limited to:

Group 1

Drivers of dump trucks (less than 12 yds. water level), drivers of trucks (legal payload capacity 2,500 gal, pickup driver, service station attendant, teamster equipment (highest rate paid for driver on site used for transportation of up to sixteen (16) passengers.

Group 2

Drivers of dump trucks (12 yds but less than 16 yds water level), drivers of trucks (legal payload capacity), mix trucks (under 3 yds), dumpcrete trucks (less than 6 ½ yds water level), gas and oil pipeline drivers, sizes of trucks, water and fuel truck drivers (2,500 gal to 4,000 gal), truck greaser, drivers of buses (up to sixteen (16) passengers), warehouse clerk.

Group 3

Drivers of dump trucks (16 yds up to and including 22 yds water level), drivers of trucks (legal payload capacity), dumpster trucks, drivers of transit-mix trucks (3 yds but less than 6 yds), dumpcrete trucks (6 ½ yds water level), driver, highway water and fuel drivers (4,001 gallon but less than 6,000 gallon), stock room clerk.

Group 4

Drivers of transit-mix trucks (6 yds or more), drivers of dump trucks (over 22 yds. water level), and over) drivers of fuel and water trucks (6,000 gallon and over).

Group 5

Drivers of trucks and trailers in combination (six axles or more).

Group 6

All Off-road Equipment, Truck Repairman, Transport Drivers and Drivers of Road Oil Spreader Letourneau pulls, Terra Cobras and similar types of equipment, also PB and similar type trucks within jurisdiction, regardless of types of attachment, including power units pulling off-highway belly dump trucks.

ZONE RATES

BRICKLAYER

In addition to BRICKLAYER rates add the applicable amounts per hour, calculated based on a

Vegas, Nevada:

0-40 Miles	\$0.00
41-50 Miles	\$2.50
51-70 Miles	\$5.00
Over 70 Miles	\$7.50

The area within the city limits of Boulder City and Primm, Nevada shall be considered free zone

CARPENTER

In addition to CARPENTER rates add the applicable amounts per hour, calculated from Maryla

Zone 1-0 to 40 miles	0.00
Zone 2-41 to 60 miles	2.50
Zone 3-Over 60 miles	4.25
Laughlin area	2.00

CEMENT MASON

In addition to CEMENT MASON rates add the applicable amounts per hour, calculated based c

Zone 1-0 to 30 miles	0.00
Zone 2-31 to 50 miles	1.50
Zone 3-over 50 miles	3.25

ELECTRICIAN COMMUNICATION TECHNICIAN

In addition to ELECTRICIAN-Communication Technician rates add the applicable amounts per Las Vegas:

Zone 1 0-25 miles	0.00	
Zone 2 26-55 miles	2.50	
Zone 3 56 miles and over	3.50	

ELECTRICIAN-WIREMAN

In addition to ELECTRICIAN-Wireman rates add the applicable amounts per hour, calculated l

Zone 1-0 to 25 miles	0.00
Zone 2-26 to 55 miles	2.50
Zone 3-over 55 miles	3.50

LABORER

In addition to: LABORER, FLAGPERSON, HOD CARRIER BRICK MASON TENDER, HOD C/ BARRIER ERECTOR rates add the applicable amounts per hour, calculated based on a radius Nevada:

Zone 1-0 to 30 Miles	0.00
Zone 2-31 to 50 Miles	1.50
Zone 3-51 Miles and Over	3.25
Laughlin Area	2.25

MILLWRIGHT

In addition to MILLWRIGHT rates add the applicable amounts per hour, calculated from Maryla

Zone 1-0 to 20 miles	0.00
Zone 2-21 to 40 miles	1.50
Zone 3-41 miles and over	3.25

OPERATING ENGINEER

In addition to: OPERATING ENGINEER; CRANES, PILEDRIVING AND HOISTING EQUIPMENT (RACK), EQUIPMENT GREASER (GREASE TRUCK), EQUIPMENT GREASER (GREASE TRUCK), FIELD SOILS AND MATERIAL TESTER and FIELD ASPHALT TESTER) rates add the applicable amounts per hour calculated from the City Hall of Las Vegas:

Zone 1-0 to 20 miles	0.00
Zone 2-21 to 40 miles	2.00
Zone 3-41 to 60 miles	3.00
Zone 4-over 60 miles	3.50

PLASTERER

In addition to PLASTERER rates add the applicable amounts per hour, calculated from the City

Zone 1-0 to 30 miles	0.00
Zone 2-31 to 50 miles	1.50
Zone 3-over 50 miles	3.25

PLUMBER/PIPEFITTER

In addition to PLUMBER/PIPEFITTER rates employees performing work on Public Works Projects following wage rates for all hours worked, calculated on an air mile radius from the Clark County

Zone 1-0-20 miles	0.00
Zone 2-21-45 miles	3.75
Zone 3-46-75 miles	7.50
Zone 4-76 miles and over	11.25

SHEET METAL WORKER

In addition to SHEET METAL WORKER and AIR BALANCE rates add the applicable amounts Las Vegas, Nevada:

Zone 1-0 to 30 miles	0.00
Zone 2-31 to 50 miles	2.50
Zone 3-51 to 100 miles	3.50 (including Laughlin)
Zone 4-over 100 miles	5.00

TILE/TERRAZZO WORKER/MARBLE MASON

In addition to TILE/TERRAZZO WORKER/MARBLE MASON rates add the applicable amounts (50) miles from the City Hall of Las Vegas, Nevada:

0-40 Miles	\$0.00
41-50 Miles	\$2.50
51-70 Miles	\$4.37
Over 70 Miles	\$6.87

The area within the city limits of Boulder City and Primm, Nevada shall be considered free zone

TRUCK DRIVER

In addition to TRUCK DRIVER rates add the applicable amounts per hour, calculated from Las

Zone 1-0 to 30 miles	0.00
Zone 2-31 to 50 miles	1.50
Zone 3-51 to 70 miles	2.50
Zone 4-Over 70 miles	3.50

EXHIBIT B - KCLV CURRENT INVENTORY

[illegible]

September 21, 2011

Location	Make	Model Number	Description	Studio/Field Reuse	Trailer Reuse	Chambers Reuse	Store/Surplus
Control Room	IKEGAMI	BS-45	WIDE BAND BASE STATION		X		
Control Room	IKEGAMI	BS-45	WIDE BAND BASE STATION		X		
Control Room	IKEGAMI	BS-45	WIDE BAND BASE STATION		X		
Control Room	IKEGAMI	BS-45	WIDE BAND BASE STATION		X		
Control Room	IKEGAMI	BS-45	WIDE BAND BASE STATION		X		
Control Room	IKEGAMI	BS-45	WIDE BAND BASE STATION		X		
Control Room	IKEGAMI	RCP-50	OPERATION CONTROL PANEL		X		
Control Room	IKEGAMI	RCP-50	OPERATION CONTROL PANEL		X		
Control Room	IKEGAMI	RCP-50	OPERATION CONTROL PANEL		X		
Control Room	IKEGAMI	RCP-50	OPERATION CONTROL PANEL		X		
Control Room	IKEGAMI	RCP-50	OPERATION CONTROL PANEL		X		
Control Room	IKEGAMI	RCP-50	OPERATION CONTROL PANEL		X		
Control Room	IKEGAMI	T-791	TRIPOD MOUNTING PLATE		X		
Studio A	IKEGAMI	T-791	TRIPOD MOUNTING PLATE		X		
Studio A	IKEGAMI	T-791	TRIPOD MOUNTING PLATE		X		
Studio A	IKEGAMI	T-791	TRIPOD MOUNTING PLATE		X		
Studio A	IKEGAMI	T-791	TRIPOD MOUNTING PLATE		X		
Engineering	IKEGAMI	OM-45	MANUAL		X		
Engineering	IKEGAMI	VA-45B	VDR ADAPTER		X		
Studio A	IKEGAMI	TA-45	WIDE BAND TRIAX ADAPTER		X		
Studio A	IKEGAMI	TA-45	WIDE BAND TRIAX ADAPTER		X		
Studio A	IKEGAMI	TA-45	WIDE BAND TRIAX ADAPTER		X		
Studio A	IKEGAMI	TA-45	WIDE BAND TRIAX ADAPTER		X		
Studio A	IKEGAMI	TA-45	WIDE BAND TRIAX ADAPTER		X		
Studio A	IKEGAMI	TA-45	WIDE BAND TRIAX ADAPTER		X		
Studio A	IKEGAMI	XH-244	HOOD		X		
Studio A	IKEGAMI	XH-244	HOOD		X		
Studio A	IKEGAMI	XH-244	HOOD		X		
Studio A	IKEGAMI	XH-244	HOOD		X		
Storage 2	IKEGAMI	CCH-SPC/V	CASE		X		
Engineering	IKEGAMI	SM-209	SERVICE MANUAL		X		
Studio A	CANNON	VJ18X9B4IRS	18X9 ZOOM LENS W/2X EXT		X		

September 21, 2011

[illegible]

Exhibit B
City Provided Existing Equipment List
September 21, 2011

Location	Make	Model Number	Description	Studio/Field Reuse	Trailer Reuse	Chambers Reuse	Store/Surplus
Master Control	KEGAMI	TM9-1	9" COLOR MONITOR		X		
Master Control	KEGAMI	TM9-1	9" COLOR MONITOR		X		
Master Control	KEGAMI	TM9-1	9" COLOR MONITOR		X		
Edit 3	KEGAMI	TM9-1	9" COLOR MONITOR		X		
Edit 4	KEGAMI	TM9-1	9" COLOR MONITOR		X		
Edit 5	KEGAMI	TM9-1	9" COLOR MONITOR		X		
Storage 1	KEGAMI	TM9-1	9" COLOR MONITOR		X		
Storage 1	KEGAMI	TM9-1	9" COLOR MONITOR		X		
Control Room	VIDEOTEK	SVGA15RK500	VGA MONITOR		X		
Storage 1	VIDEOTEK	SVGA15RK500	VGA MONITOR		X		
Control Room	SONY	PVW-2800	BETA VTR		X		
Control Room	SONY	UVW-1800	BETA VTR		X		
Master Control	PANASONIC	AI-D950	DVCPRO VTR		X		
Control Room	PANASONIC	AI-D950	DVCPRO VTR		X		
Storage 1	GRASS VALLEY	1200	DIGITAL SWITCHER		X		
Engineering	ROSS	EXPRESSION	CHARACTER GENERATOR		X		
Storage 1	LEITCH	VIA 32X16 A2	AUDIO ROUTER		X		
Control Room	LEITCH	VIA 32S	SERIAL ROUTER		X		
Control Room	LEITCH	FR-683	FRAME		X		
Control Room	LEITCH	VDA-683	VIDEO DA		X		
Control Room	LEITCH	FR-680MB	MIX BOX		X		
Storage 1	LEITCH	SPG-1680N	SYNC PULSE GENERATOR		X		
Control Room	LEITCH	CF-6801	COOLING FRAME		X		
Control Room	LEITCH	FR-6804-1	FRAME		X		
Storage 1	LEITCH	DES-6801	D/A CONVERTER		X		
Storage 1	LEITCH	ENS-6801	A/D CONVERTER		X		
Storage 1	LEITCH	VSE-6801	SERIAL DISTRIBUTION AMP		X		
Storage 1	LEITCH	16X1P	BUTTON PER SOURCE		X		
Storage 1	LEITCH	RCPABAP	ALPHANUMERIC BREAKAWAY ROUTER HEAD		X		
Control Room	TELEX	VSM16X16	ANALOG ROUTER		X		
Control Room	TELEX	PS15	POWER SUPPLY		X		
Master Control	TELEX	PS15	POWER SUPPLY		X		

Exhibit B
City Provided Existing Equipment List
September 21, 2011

Location	Make	Model Number	Description	Studio/Field Reuse	Trailer Reuse	Chambers Reuse	Store/Surplus
Control Room	TELEX	MRT327	USER STATION		X		
Control Room	TELEX	MRT327	USER STATION		X		
Control Room	TELEX	MRT327	USER STATION		X		
Master Control	TELEX	MRT327	USER STATION		X		
Storage 1	TELEX	MRT327	USER STATION		X		
Storage 1	TELEX	MRT327	USER STATION		X		
Control Room	TELEX	MCS325	LOUDSPEAKER		X		
Master Control	TELEX	MCS325	LOUDSPEAKER		X		
Studio A	TELEX	BP325	BELTPACK USER STATION		X		
Control Room	TELEX	BP325	BELTPACK USER STATION		X		
Studio B	TELEX	BP325	BELTPACK USER STATION		X		
Control Room	TELEX	4010	IFB SYSTEM		X		
Control Room	TELEX	4002	IFB CONTROL STATION		X		
Control Room	TELEX	4002	IFB CONTROL STATION		X		
Control Room	SONY	PVM-4BAV	QUAD MONITOR				X
Control Room	SONY	PVM-4BAV	QUAD MONITOR				X
Control Room	SONY	PVM-4BAV	QUAD MONITOR				X
Control Room	SONY	PVM-4BAV	QUAD MONITOR				X
Control Room	TRIPLITE	LCR-2400	POWER REGULATOR		X		
Control Room	TRIPLITE	LCR-2400	POWER REGULATOR		X		
Control Room	TRIPLITE	LCR-2400	POWER REGULATOR		X		
Control Room	TRIPLITE	LCR-2400	POWER REGULATOR		X		
Edit 1	TRIPLITE	LCR-2400	POWER REGULATOR		X		
Edit 2	TRIPLITE	LCR-2400	POWER REGULATOR		X		
Edit 3	TRIPLITE	LCR-2400	POWER REGULATOR		X		
Edit 4	TRIPLITE	LCR-2400	POWER REGULATOR		X		
Control Room	MARANTZ	PMD350V	CASSETTE/CD PLAYER		X		
Control Room	CROWN	D75A	AUDIO AMP		X		
Control Room	CROWN	D75A	AUDIO AMP		X		
Control Room	CROWN	D75A	AUDIO AMP		X		
Control Room	SONY	BVR-55	TBC REMOTE CONTROL UNIT		X		
Control Room	SONY	BVR-55	TBC REMOTE CONTROL UNIT		X		
Control Room	MACKIE	SR32-4	AUDIO MIXER		X		
Control Room	GENTNER	TS612	PHONE HYBRID				X
Control Room	ESE	ES-102	GPS CLOCK		X		
Control Room	ESE	ES-102	GPS CLOCK		X		
Control Room	ESE	ESE326A	TIMER	X	X		

Exhibit B
City Provided Existing Equipment List
September 21, 2011

Location	Make	Model Number	Description	Studio/Field Reuse	Trailer Reuse	Chambers Reuse	Store/Surplus
Control Room	ESE	ESE326A	TIMER	X			
Studio A	BURST	CUSTOM	AUDIO/IFB SNAKE		X		
Studio B	BURST	CUSTOM	AUDIO/IFB SNAKE		X		
Control Room	VIDEOTEK	VTM-203	WAVEFORM/VECTOR		X		
Studio A	TANNOY	REVEAL	STUDIO MONITOR SPEAKERS	X			
Studio A	TANNOY	REVEAL	STUDIO MONITOR SPEAKERS	X			
Control Room	TANNOY	REVEAL	STUDIO MONITOR SPEAKERS	X			
Control Room	TANNOY	REVEAL	STUDIO MONITOR SPEAKERS	X			
Studio B	TANNOY	REVEAL	STUDIO MONITOR SPEAKERS		X		
Studio B	TANNOY	REVEAL	STUDIO MONITOR SPEAKERS		X		
Control Room	EXTRON	VCS300	SDI SCAN CONVERTER		X		
Control Room	KEGAMI	TM-14-17R	DIGITAL MONITOR		X		
Control Room	KEGAMI	TM-14-17R	DIGITAL MONITOR		X		
Studio A	ETC	2003-1-CC	48 Channel Light Console with patch,	X			
Studio B	ETC	2003-1-CC	48 Channel Light Console with patch,			X	
Engineering	Panasonic	AJ-SPC700P	P2 Camcorder				X
Engineering	Panasonic	AJ-SPC700P	P2 Camcorder				X
Engineering	Azden	1000 URX/SI	UNISLOT RECEIVER				X
Engineering	Azden	1000 URX/SI	UNISLOT RECEIVER				X
Engineering	Azden	1000BT	BELT PACK TRANSMITTER				X
Engineering	Azden	1000BT	BELT PACK TRANSMITTER				X
Engineering	Azden	1000XT	XLR TRANSMITTER				X
Engineering	Azden	1000XT	XLR TRANSMITTER				X
Engineering	Fujinon	A13x4.5BDERM-M48B	LENS * Reuse on new HD Field Cameras	X			
Engineering	Fujinon	A13x4.5BDERM-M48B	LENS * Reuse on new HD Field Cameras	X			
Engineering	SACHTLER	VIDEO 14 II	TRIPOD HEAD	X			
Engineering	SACHTLER	VIDEO 18	TRIPOD HEAD	X			
Engineering	SACHTLER	VIDEO 18 SB	TRIPOD HEAD	X			
Engineering	SACHTLER	DV 8/100	TRIPOD HEAD	X			
Engineering	SACHTLER	HOT POD	TRIPOD	X			
Engineering	SACHTLER	HOT POD	TRIPOD	X			
Studio A	KEGAMI (Canon)	MS-21M	Studio conversion kit (zoom				X

September 21, 2011

Location	Make	Model Number	Description	Studio/ Field Reuse	Trailer Reuse	Chambers Reuse	Store/ Surplus
demand)							
Studio A	Ikegami (Canon)	MS-21M	Studio conversion kit (zoom demand)		X		
Studio A	Ikegami (Canon)	MS-21M	Studio conversion kit (zoom demand)		X		
Studio A	Ikegami (Canon)	MS-21M	Studio conversion kit (zoom demand)		X		
Studio A	Ikegami (Canon)	MS-21M	Studio conversion kit (zoom demand)		X		
Studio A	Ikegami (Canon)	MS-21M	Studio conversion kit (zoom demand)		X		
Studio A	Ikegami (Canon)	MS-21M	Studio conversion kit (zoom demand)		X		
Studio A	Vinten	Vision 250	Fluid head		X		
Studio A	Vinten	Vision 250	Fluid head		X		
Studio A	Vinten	Vision 250	Fluid head		X		
Studio A	Vinten	Vision 250	Fluid head	X			
Studio A	Vinten	Vision 250	Fluid head	X			
Studio A	Vinten	Vision 250	Fluid head	X			
Studio A	Vinten	3381-3C	Pro-ped pedestal (studio)	X			
Studio A	Vinten	3381-3C	Pro-ped pedestal (studio)	X			
Control Room	BUF	VTC-2000R	Rackmount vtr remote controller		X		
Control Room	Sony	SDM-M81/B	18.1" flat panel lcd monitor black		X		
Control Room	Pioneer	PRV-9000	DVD recorder	X			
Control Room	Panasonic	SDC95NTSC	DVC PRO VCR		X		
Edit 5	Panasonic	SDG95NTSC	DVC PRO VCR		X		
Studio A	Sony	PVM20LS	20" multi format production monitor		X		
Studio B	Sony	PVM20LS	20" multi format production monitor		X		
Control Room	Pro-bel-Chyron	Freeway	Digital Router		X		
Control Room	Broadax Systems	RMM-9120	12" rackmount monitor		X		
Studio A	Audio Technica	AT-831B	Miniature cariod condenser microphone		X		

September 21, 2011

[illegible]

Exhibit B

[illegible]

Exhibit B
City Provided Existing Equipment List
September 21, 2011

Location	Make	Model Number	Description	Studio/Field Reuse	Trailer Reuse	Chambers Reuse	Store/Surplus
Master Control	EASI		Feed cover for Seavey feed enclosure	X			
Master Control	Marshall		MONITORS DUAL 8.4" LCD RCK MINT		X		
Master Control			SCAN CONVERTER VS-300D	X	X		
	Apple		APPLE POWER MAC PRO WORKSTATION	X			
Edit 7	Apple		APPLE POWER MAC PRO WORKSTATION	X			
Edit 6	Apple		APPLE POWER MAC PRO WORKSTATION	X			
Server Room	Qlogic		QLOGIC SANBOX 5200	X			
	Apple		APPLE POWER MAC PRO WORKSTATION	X			
Engineering	Panasonic	AD-HVX200P	PANASONIC DVCPRO HD CAMCORDER	X			
Engineering	Panasonic	AD-HVX200P	PANASONIC DVCPRO HD CAMCORDER	X			
Master Control	Qlogic		QLOGIC 7386187 SB5602Q-20A SANBOX 5602 WITH 20 PORTS	X			
Engineering	Sachtler		SACHTLER HOTPOD PACKAGE #SASST18NC	X			
Master Control	Apple	XSERVE	XSERVE OPTIONS: 065-7702 ONE 2.8GHZ QUAD-CO	X			
Master Control	Apple	XSERVE	XSERVE OPTIONS: 065-7702 ONE 2.8GHZ QUAD-CO	X			
Master Control	Apple	XSERVE	XSERVE OPTIONS: 065-7702 ONE 2.8GHZ QUAD-CO	X			
Master Control	Apple	XSERVE	XSERVE OPTIONS: 065-7702 ONE 2.8GHZ QUAD-CO	X			
Master Control	Apple	XSERVE	XSERVE OPTIONS: 065-7702 ONE 2.8GHZ QUAD-CO	X			
Master Control	Qlogic		QLOGIC 7386187 SB5602Q-20A SANBOX 5602 WITH 20 PORTS	X			
Storage 1	Qlogic		QLOGIC 7386187 SB5602Q-20A SANBOX 5602 WITH 20 PORTS	X			
Server Room	Apple	XSERVE	2.8GHZ QUAD-CO	X			
Server Room	Atempo		Atempo TIME NAVIGATOR	X			

Exhibit B
City Provided Existing Equipment List
September 21, 2011

Location	Make	Model Number	Description	Studio/Field Reuse	Trailer Reuse	Chambers Reuse	Store/Surplus
SERVER FOR MAC							
Edit 1	Sony		BETACAM SP EDIT/RECORD/PLAYER		X		
STUDIO TWO-STAGE TRIPOD SYSTEM							
Studio A	Vinten				X		
STUDIO TWO-STAGE TRIPOD SYSTEM							
Studio B	Vinten				X		
STUDIO TWO-STAGE TRIPOD SYSTEM							
Studio A	Vinten				X		
STUDIO TWO-STAGE TRIPOD SYSTEM							
Server Room	Apple	XSERVE	XSERV2.8GHZ QUAD-CO SYSTEM 4QS CHROMA KEY CYC	X			
MAC PRO OPTIONS:065-7535 TWO 3.2GHZ QUAD-CO							
Edit 5	Apple	MAC PRO		X			
XSERVE OPTIONS: 065-7255 TWO 3.0GHZ QUAD-CO							
Server Room	Apple	XSERVE		X			
XSERVE OPTIONS: 065-7702 ONE 2.8GHZ QUAD-CO							
Server Room	Apple	XSERVE		X			
APPLE MAC PRO CTO VIDEO WKST W/ 23" HD DISPLAY							
Edit 3	Apple	MAC PRO		X			
APPLE MAC PRO CTO VIDEO WKST W/ 23" HD DISPLAY							
Edit 2	Apple	MAC PRO		X			
APPLE MAC PRO CTO VIDEO WKST W/ 23" HD DISPLAY							
Edit 4	Apple	MAC PRO		X			
APPLE MAC PRO CTO VIDEO WKST W/ 23" HD DISPLAY							
Server Room	Apple		APPLE XSERVER RAID 7000G				X
APPLE XSERVER RAID 7000G							
Server Room	Apple		APPLE XSERVER RAID 7000G				X
APPLE XSERVER RAID 7000G							
Server Room	Apple		APPLE XSERVER RAID 7000G				X
APPLE XSERVER RAID 7000G							
Server Room	Apple		APPLE XSERVER RAID 7000G				X
APPLE XSERVER RAID 7000G							
Edit 1	Apple		APPLE MAC PRO,CTO COMPUTER-Flood Channel	X			
APPLE MAC PRO COMPUTER							
Control Room	Apple			X			X
APPLE MAC PRO COMPUTER							
Control Room	Apple			X			X
APPLE MAC PRO COMPUTER							
Master Control	PROMISE		PROMISE VTRAK E-CLASS 16X 750 SATA RAID	X			
GRASS-VALLEY INDIGO MIXER INDG01-HR INDG01-SD							
Master Control	Grass Valley			X			
GRASS VALLEY INDIGO MIXER INDG01-HR INDG01-SD							
Council Chambers	Grass Valley		GRASS VALLEY INDIGO MIXER INDG01-HR INDG01-SD				X

Exhibit B
City Provided Existing Equipment List
September 21, 2011

Location	Make	Model Number	Description	Studio/Field Reuse	Trailer Reuse	Chambers Reuse	Store/Surplus
Master Control	PROMISE		PROMISE VTRAK E-CLASS 16X 750 SATA RAID	X			
Server Room	QUANTUM		QUANTUM SDLT PX502 TAPE BACKUP	X			
Council Chambers	HARRIS		INSCRIBER G13100 G1 PRODUCTION SYSTEM			X	
Engineering	Panasonic		PANASONIC AJ-SPC700P P2 VIDEO CAMERA SYSTEMS				X
Engineering	Panasonic		PANASONIC AJ-SPC700P P2 VIDEO CAMERA SYSTEMS				X

EXHIBIT C - CITY COUNCIL CHAMBERS LIGHTING EQUIPMENT

Quantity	Part No.	Description	Fixt Count	Lamps	Watts
Dais Front Lights					
16	S1.4X1-DMX-H	4 Lamp SeriesONE, DMX Control, Horizontal Yoke	16	4	3520
16	INT-1	Intensifier			
16	INT-1/CS-MF	Intensifier Medium Field Screen			
64	009-55W32KG86	GE 3200K StudioBiax Lamp			
Dais Back Lights					
8	S1.2X1-DMX-V	2 Lamp SeriesONE, DMX Control, Vertical Yoke	8	2	880
6	FIX-1/CS-BF	Fixture Broad Field Screen			
2	FIX-1/CS-MF	Fixture Broad Field Screen			
16	009-55W32KG86	GE 3200K StudioBiax Lamp			
Staff Table Front Lights					
10	S1.2X1-DMX-V	2 Lamp SeriesONE, DMX Control, Vertical Yoke	10	2	1100
2	S1.4X1-DMX-V	2 Lamp SeriesONE, DMX Control, Vertical Yoke	2	4	440
12	INT-1	Intensifier			
12	INT-1/CS-MF	Intensifier Medium Field Screen			
28	009-55W32KG86	GE 3200K StudioBiax Lamp			
Staff Table Back Lights					
8	S1.2X1-DMX-H	2 Lamp SeriesONE, DMX Control, Horizontal Yoke	8	2	880
8	INT-1	Intensifier			
6	INT-1/CS-BF	Intensifier Broad Field Screen			
2	INT-1/CS-MF	Intensifier Medium Field Screen			
16	009-55W32KG86	GE 3200K StudioBiax Lamp			
Podium Lights					
3	S1.4X1-DMX-H	4 Lamp SeriesONE, DMX Control, Horizontal Yoke	3	5	825
2	S1.2X1-DMX-H	2 Lamp SeriesONE, DMX Control, Horizontal Yoke	2	2	220
4	INT-1	Intensifier			
4	INT-1/CS-MF	Intensifier Medium Field Screen			
1	INT-1/CS-NF	Intensifier Narrow Field			

Screen					
16	009-55W32KG86	GE 3200K StudioBiax Lamp			
2	S1.4X1-DMX-H	4 Lamp SeriesONE, DMX Control, Horizontal Yoke	2	4	440
2	INT-1	Intensifier			
2	INT-1/CS-MF	Intensifier Medium Field Screen			
8	009-55W32KG86	GE 3200K StudioBiax Lamp			
Audience Lights					
30	S1.2X1-DMX-V	2 Lamp SeriesONE, DMX Control, Vertical Yoke	30	2	3300
30	INT-1	Intensifier			
30	INT-1/CS-BF	Intensifier Broad Field Screen			
60	009-55W32KG86	GE 3200K StudioBiax Lamp			
10	S1.2X1-DMX-V	2 Lamp SeriesONE, DMX Control, Vertical Yoke	10	2	1100
10	FIX-1/CS-BF	Fixture Broad Field Screen			
20	009-55W32KG86	GE 3200K StudioBiax Lamp			
City Logo Light					
1	SOURCE 4 19	Source4 Ellipsoidal Spotlight, 19°	1		575
1	009-575 HPLX	575 Watt Lamp for Source4 Fixtures			
1	4X1200 DIM PACK	4 Channel 1200 Watt Dimmer Pack			
Grip Equipment					
92	nbn	Hanging Hardware (tbd)			
Control Equipment					
1	nbn	Strand Basic Palette II 100 Channel Console			
1	COMP-MON-17	17" Flat Panel Monitor			
4	DMX-SPLIT	DMX Splitter, 6-Way			
92	MTX-15	DMX Control Cable, 15'			
3	MTX-25	DMX Control Cable, 25'			
1	MTX-50	DMX Control Cable, 50'			
			92	13,280	
				Area	7425
				W/Sq Ft	1.789

SONY Systems Solutions

Exhibit D - Project Schedule Detail

10/03/2011

ID	Task Name	Duration	Start	Finish	Predecessors
1		1 day?	Mon 5/2/11	Mon 5/2/11	1, 10, 15, 22, 28, 5, 11, 21, 26, 3, 10, 17, 24, 31, 7, 11, 12, 18, 1, 4, 11, 18, 25, 2, 19, 16, 23, 30, 6, 13, 20, 27, 4, 11, 18, 25, 1, 8, 15, 22
2					
3	KCLV Channel 2 Project Duration	129 days?	Mon 10/17/11	Mon 4/23/12	
4					
5	Contract Signed	1 day?	Mon 10/17/11	Mon 10/17/11	
6	Conceptual Design Process	20 days?	Tue 10/18/11	Mon 11/14/11	5
7	Facility Infrastructure Review	10 days?	Tue 10/18/11	Mon 10/31/11	
8	Contractors Meetings/Architect/City of LVGCI Me	5 days?	Tue 10/25/11	Mon 10/31/11	7FS-5 days
9	Existing Equipment Audit and Log	10 days?	Tue 10/18/11	Mon 10/31/11	7SS
10	Conceptual Design and Documentation	15 days?	Tue 10/25/11	Mon 11/14/11	7SS-5 days
11	Conceptual Design Approval	4 days?	Tue 11/15/11	Tue 11/22/11	10
12	PFE Equipment List development	4 days?	Tue 11/15/11	Tue 11/22/11	10
13	Equipment List development/Approval	9 days?	Wed 11/23/11	Mon 12/5/11	12
14	Order Racks and JFs and Materials	1 day?	Wed 10/19/11	Wed 10/19/11	SFS-1 day
15	Finalized Approval Level Design Process	30 days?	Thu 11/24/11	Wed 1/11/12	
16	Satellite System	20 days?	Thu 11/24/11	Wed 12/21/11	11FS-1 day
17	Studio Lighting	20 days?	Thu 11/24/11	Wed 12/21/11	11FS-1 day
18	Production Control Room	20 days?	Thu 11/24/11	Wed 12/21/11	11FS-1 day
19	Studio	20 days?	Thu 11/24/11	Wed 11/11/12	18FS-10 days
20	Audio Control Room	20 days?	Thu 11/24/11	Wed 12/21/11	11FS-1 day
21	Intercom	20 days?	Thu 12/8/11	Wed 11/11/12	10FS-10 days
22	Master Control Room	20 days?	Thu 11/24/11	Wed 12/21/11	11FS-1 day
23	SAVEDIT	20 days?	Thu 11/24/11	Wed 12/21/11	11FS-1 day
24	I/O Design and layout	20 days?	Thu 12/8/11	Wed 1/11/12	13FS-10 days
25	Council Chambers Control Room	20 days?	Thu 11/24/11	Wed 12/21/11	11FS-1 day
26	Council Chambers Cameras and Audio	20 days?	Thu 11/24/11	Wed 12/21/11	11FS-1 day
27	Design Review/verification 100%	0 days?	Wed 1/18/12	Wed 1/18/12	24FS-5 days
28	Official Design Approval/System Checkout 100%	0 days?	Wed 1/18/12	Wed 1/18/12	24FS-5 days
29	Equipment and Materials Pricing 100%	0 days?	Wed 1/18/12	Wed 1/18/12	24FS-5 days
30	Complete Equipment list per City approved design 100%	0 days?	Wed 1/18/12	Wed 1/18/12	24FS-5 days
31	Hardware and Software Purchase 100%	0 days?	Wed 1/18/12	Wed 1/18/12	24FS-5 days
32	Create Construction Documentation/Detail Design 100%	0 days?	Wed 1/18/12	Wed 1/18/12	24FS-5 days
33					
34	Implementation (Broadcast Systems)	128 days?	Tue 10/18/11	Mon 4/23/12	

Project:
KCLV Ch2 Design and Integration
Date: Mon 10/31/11

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Exhibit D - Project Schedule Detail

Exhibit D Project Schedule

10/03/2011

ID	Task Name	Duration	Start	Finish	Predecessors
35	Off Site Integration Start	1 day	Thu 1/5/12	Thu 1/5/12	12/22/11
36	Wire Runlist Data Base Creation	30 days?	Thu 1/28/11	Wed 1/25/12	36FS-10 days
37	Cable Fabrication	30 days?	Thu 1/22/11	Wed 2/8/12	36SS-10 days
38	Fabrication 50% complete	1 day?	Thu 1/19/12	Thu 1/19/12	7SS-15 days
39	Fabrication 100% complete	1 day?	Thu 2/9/12	Thu 2/9/12	7SS-30 days
40	On Site Integration start	1 day?	Thu 12/8/11	Thu 12/8/11	36SS
41	Deliver off site pre-build components	1 day?	Thu 12/22/11	Thu 12/22/11	6SS+10 days
42					
43	Onsite Integration	128 days?	Tue 10/18/11	Mon 4/23/12	
44	Detailed Interference Analysis Satellite System	10 days?	Wed 10/4/11	Tue 1/1/12	5FS+1 day
45	Frequency Coordination	10 days?	Wed 11/2/11	Tue 1/15/12	44
46	FCC License Application Preparation	10 days?	Wed 11/2/11	Tue 1/15/12	44
47	Satellite Antenna Equipment Ordered	1 day?	Tue 10/18/11	Tue 10/18/11	5
48	Satellite Antenna Equipment Delivered	1 day?	Fri 1/6/12	Fri 1/6/12	7FS-50 days
49	New 3.7M DH Antenna Installation	6 days?	Mon 1/6/12	Mon 1/6/12	46
50	New 3.7M ASC Antenna Installation	3 days?	Tue 1/17/12	Thu 1/19/12	49
51	New 4.9M ASC Antenna Installation	7 days?	Fri 1/20/12	Mon 1/30/12	50
52	Satellite Equipment Room Installation	10 days?	Tue 1/13/12	Mon 2/13/12	51
53	New Satellite System Test and Configuration	5 days?	Tue 2/14/12	Mon 2/20/12	52
54	New Satellite System Ready for Transmission	1 day?	Tue 2/21/12	Tue 2/21/12	53
55	Existing Antenna Decommission and Relocate	3 days	Thu 3/8/12	Mon 3/12/12	101
56	Antenna Installation Complete	1 day?	Tue 3/13/12	Tue 3/13/12	55
57	Studio Lighting Installation	15 days?	Thu 12/8/11	Wed 1/4/12	40SS
58	Council Chambers Lighting Installation	16 days?	Thu 1/5/12	Thu 1/26/12	57
59	Rack Installation	5 days?	Thu 12/22/11	Wed 1/4/12	58
60	Console Installation	5 days?	Thu 12/22/11	Wed 1/4/12	58
61	On Site Supervision	68 days?	Thu 1/19/12	Mon 4/23/12	36FS-5 days
62	Start Receiving New Equipment on site	40 days?	Thu 1/5/12	Wed 2/29/12	60
63	On Site Hardware and Equipment Installation :	1 day?	Wed 1/11/12	Wed 1/11/12	62SF-45 days
64	Exterior/Roof Cabling Complete	1 day?	Fri 1/20/12	Fri 1/20/12	50
65	Equipment Shipping and Receiving 100%	1 day?	Thu 3/1/12	Thu 3/1/12	62
66	Equipment Installation 100%	1 day?	Thu 3/1/12	Thu 3/1/12	62
67	Inter area cable pulls	20 days?	Thu 12/22/11	Wed 1/25/12	6SS+10 days
68	Fiber Gige Backbone Pulls	10 days?	Thu 1/26/12	Wed 2/8/12	67

Project: KCI/CH2 Design and Integration
Date: Mon 10/3/11

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SONY Systems Solutions

Exhibit D - Project Schedule Detail

Exhibit D Project Schedule
10/03/2011

ID	Task Name	Duration	Start	Finish	Predecessors	1st Half	2nd Half
69	Inter Area Cabling 100%	1 day?	Thu 2/9/12	Thu 2/9/12	66	1.8.1552229.5	1.24.926.3
70	Inter Floor Cabling 100%	1 day?	Thu 2/9/12	Thu 2/9/12	68	1.8.1552229.5	1.24.926.3
71	Systems Interconnect Start	1 day?	Thu 1/5/12	Thu 1/5/12	60	1.8.1552229.5	1.24.926.3
72	Production Control Room	15 days?	Thu 1/5/12	Wed 1/25/12	60	1.8.1552229.5	1.24.926.3
73	Audio Control	10 days?	Thu 1/19/12	Wed 2/1/12	72FS-5 days	1.8.1552229.5	1.24.926.3
74	Studio BSP	5 days?	Thu 1/26/12	Wed 2/1/12	72	1.8.1552229.5	1.24.926.3
75	Master Control Room	15 days?	Thu 1/5/12	Wed 1/25/12	60	1.8.1552229.5	1.24.926.3
76	Equipment Room	25 days?	Thu 1/5/12	Wed 2/8/12	60	1.8.1552229.5	1.24.926.3
77	Communications Distribution Room	10 days?	Thu 1/26/12	Wed 2/8/12	75	1.8.1552229.5	1.24.926.3
78	Edit 1 (New)	3 days?	Thu 2/2/12	Mon 2/6/12	73	1.8.1552229.5	1.24.926.3
79	Edit 2 (New)	3 days?	Tue 2/7/12	Thu 2/9/12	76	1.8.1552229.5	1.24.926.3
80	Edit 3 (New)	3 days?	Fri 2/10/12	Tue 2/14/12	79	1.8.1552229.5	1.24.926.3
81	Maintenance	5 days?	Thu 2/9/12	Wed 2/15/12	76	1.8.1552229.5	1.24.926.3
82	Camera Storage	5 days?	Thu 2/9/12	Wed 2/15/12	76	1.8.1552229.5	1.24.926.3
83	Tape Storage	5 days?	Thu 1/26/12	Wed 2/1/12	72	1.8.1552229.5	1.24.926.3
84	Viewing Room	2 days?	Thu 2/16/12	Fri 2/17/12	81	1.8.1552229.5	1.24.926.3
85	Break Room	2 days?	Thu 2/16/12	Fri 2/17/12	82	1.8.1552229.5	1.24.926.3
86	Truck Garage	5 days?	Thu 2/2/12	Wed 2/8/12	83	1.8.1552229.5	1.24.926.3
87	Council Chambers Control Room	15 days?	Thu 1/5/12	Wed 1/25/12	60	1.8.1552229.5	1.24.926.3
88	Council Chambers	15 days?	Thu 1/5/12	Wed 1/25/12	60	1.8.1552229.5	1.24.926.3
89	Interior Lobby I/O	2 days?	Thu 1/26/12	Fri 1/27/12	88	1.8.1552229.5	1.24.926.3
90	Exterior Lobby I/O	2 days?	Mon 1/30/12	Tue 1/31/12	89	1.8.1552229.5	1.24.926.3
91	Reception	2 days?	Wed 2/1/12	Thu 2/2/12	90	1.8.1552229.5	1.24.926.3
92	Mayor's Conference Room	6 days?	Fri 2/3/12	Fri 2/10/12	91	1.8.1552229.5	1.24.926.3
93	Curtside Media Truck Area	2 days?	Fri 2/3/12	Mon 2/6/12	91	1.8.1552229.5	1.24.926.3
94	Punch/Rest Area/Sup Assist	38 days?	Thu 2/9/12	Mon 4/2/12	86	1.8.1552229.5	1.24.926.3
95	Test Start	1 day?	Thu 1/26/12	Thu 1/26/12	75	1.8.1552229.5	1.24.926.3
96	Test/Commission/Support	45 days?	Thu 1/26/12	Wed 3/29/12	75	1.8.1552229.5	1.24.926.3
97	Vendor Commissioning Start	1 day?	Thu 2/9/12	Thu 2/9/12	97	1.8.1552229.5	1.24.926.3
98	Vendor Commissioning	10 days?	Fri 2/10/12	Thu 2/23/12	97	1.8.1552229.5	1.24.926.3
99	Training Start	1 day?	Fri 2/24/12	Fri 2/24/12	98	1.8.1552229.5	1.24.926.3
100	Training Phase I	5 days?	Mon 2/27/12	Fri 3/2/12	99	1.8.1552229.5	1.24.926.3
101	1st Broadcast from Council Chambers	1 day?	Wed 3/7/12	Wed 3/7/12	99	1.8.1552229.5	1.24.926.3
102	Substantial Completion	1 day?	Thu 3/8/12	Thu 3/8/12	101	1.8.1552229.5	1.24.926.3

Project:
KOLV Cn2 Design and Integration
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SONY Systems Solutions

Exhibit D - Project Schedule Detail

Exhibit D Project Schedule
10/03/2014

ID	Task Name	Duration	Start	Finish	Predecessors	1st Half	2nd Half	1st Half
103	Training Phase II Broadcast Support	5 days?	Fri 3/9/12	Thu 3/15/12	102	103 152229 5 12 1928 3 101 7243 17 1142 128 4 111825 2 19 162300 6 132027 4 111825 1 18 152229 5 12 1928 4 111825 1 18 1522		Training Phase
104	As Buil/Final Documentation Delivery	0 days	Thu 4/5/12	Thu 4/5/12 2FS+20 days				
105								
106	Relocation	26 days?	Thu 1/26/12	Thu 3/1/12				1/26 Relocation
107	Decommission existing Edit 1 and Move to City Hal	2 days?	Thu 1/26/12	Fri 1/27/12	88			1103 Decommission existing Edit 1 a
108	Edit 4	3 days?	Mon 1/30/12	Wed 2/1/12	107			1100 Decommission existing Edit 2
109	Decommission existing Edit 2 and Move to City Hal	2 days?	Thu 2/2/12	Fri 2/9/12	108			1102 Decommission existing Edit
110	Edit 5	3 days?	Mon 2/6/12	Wed 2/8/12	109			1011 Decommission existing
111	Decommission existing Edit 3 and Move to City Hal	2 days?	Thu 2/9/12	Fri 2/10/12	110			1010 Equipment decomm
112	Edit 6	3 days?	Mon 2/13/12	Wed 2/15/12	111			On Site Installation Complete 3/1
113	Decommission existing Edit 4 and Move to City Hal	2 days?	Thu 2/16/12	Fri 2/17/12	112			
114	Edit 7	3 days?	Mon 2/20/12	Wed 2/22/12	113			
115	Equipment decommission and relocation	25 days?	Thu 1/26/12	Wed 2/28/12	87			
116	On Site Installation Complete	1 day?	Thu 3/1/12	Thu 3/1/12	115			

Project: KOLV CH2 Design and Integration
Date: Mon 10/3/11

Task Split Progress Milestone Summary Project Summary External Tasks External Milestone Deadline

SONY

PROFESSIONAL SOLUTIONS OF AMERICA

THIS PRODUCT IS FOR PROFESSIONAL USE

LIMITED PRODUCT WARRANTY

SONY ELECTRONICS INC. ("Sony") warrants this Product against defects in material or workmanship, as follows:

A. Labor:	For a period of ninety (90) days from the date of purchase, Sony will, at no charge, repair this Product if determined by Sony to be defective. After the warranty period, the Purchaser must pay all labor charges.	
B. Parts:	For a period of one (1) year from the date of purchase Sony will, at no charge, supply new or rebuilt replacements for parts determined by Sony to be defective. After the warranty period, the Purchaser must pay all parts charges.	
C. Territory:	Warranty coverage is only valid within the United States, excluding territories.	
D. Exceptions:	Exceptions or limitations to the preceding labor and parts warranty coverage on selected Products are as follows:	
Storage Products		
PRODUCT MODEL SERIES	LIMITED WARRANTY COVERAGE PERIOD	
• DSR Recorder/Player (Including MD Series)	• Labor • Parts	One (1) year One (1) year, except a) VTR Drum assembly, which is warranted for ninety (90) days, and b) DSR-85 VTR Drum Assembly, which is warranted for 1500 Drum rotation hours or ninety (90) days, whichever occurs first.
• DNW Recorder/Player	• Parts	One (1) year, except hybrid Hard Disk Drive which is warranty for five (5) years.
• DVW Recorder/Player	• Parts	One (1) year, except DVW Mid-Drum Assembly, which is warranted for 1,500 operating hours or one (1) year, whichever occurs first. During warranty period, full credit towards replacement provided for the first 1,000 hours, and if operating hours exceeds 1,000 then credit towards replacement prorated as follows: $\text{Credit} = \frac{\text{Current Assy Price} \times (1,500 \text{ Hours} - \text{Actual Head Usage Hours})}{500 \text{ Hours}}$
• MSW Recorder/Player	• Parts	One (1) year, except MSW Rotary Upper Drum Assembly, which is warranted for 1,500 operating hours or one (1) year, whichever occurs first. During warranty period, full credit towards replacement provided for the first 1,000 hours and if operating hours exceeds 1000 then credit towards replacement prorated as follows: $\text{Credit} = \frac{\text{Current Assy Price} \times (1,500 \text{ Hours} - \text{Actual Head Usage Hours})}{500 \text{ Hours}}$
• HDW/BVW/PVW/UVW Recorder/Player	• Parts	One (1) year, except Rotary Upper Drum Assembly and HDW Mid-Drum Assembly, which is warranted for 1,500 operating hours or one (1) year, whichever occurs first. During warranty period, full credit towards replacement provided for the first 500 hours and if operating hours exceeds 500 then, credit towards replacement prorated as follows: $\text{Credit} = \frac{\text{Current Assy Price} \times (1,500 \text{ Hours} - \text{Actual Head Usage Hours})}{1,000 \text{ Hours}}$
• PDW Recorder/Player SD & HD 422 Versions • PDW-F1600 HD422 Recorder/Player • PDW-D1 Drive Unit (MPEG IMX/DVCAM)	• Labor • Parts	One (1) year One (1) year, except the Optical Drive System which consists of the BRD-P1, BRD-P2, BRD-P200 assemblies, optical laser block, loader and seek motor which are warranted for seven (7) years parts & labor.
• PDW-F30, F70, F75 Recorder/Player • PDW-U1 Drive Unit	• Labor • Parts	Two (2) years Two (2) years Product warranty inclusions: • Priority Depot service. • Periodic maintenance performed per manufacture specifications. • Software support including priority telephone support. • Toll-free telephone technical support during normal business hours; 8:30 A.M. - 8 P.M. EST (English language) or 8:30 A.M. - 5:00 P.M. EST (Spanish language) except Sony holidays.
• PDW-70MD, 75 MD Recorder/Player	• Labor • Parts	Two (2) years Two (2) years • Priority Depot service. • Periodic maintenance performed per manufacture specifications. • Software support including priority telephone support. • Toll-free telephone technical support during normal business hours; 8:30 A.M. - 8 P.M. EST (English language) or 8:30 A.M. - 5:00 P.M. EST (Spanish language) except Sony holidays.
• PMW-EX30	• Labor	One (1) year



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• SRW Recorder/Player	• Labor • Parts	One (1) year One (1) year, except the Drum Assembly which is covered for 3,000 operating hours. Full credit towards replacement is provided for one (1) year or 1,500 hours whichever occurs first. Thereafter, credit towards replacement prorated as follows: $\text{Credit} = \frac{\text{Current Assy Price} \times (3,000 \text{ Hours} - \text{greater of Actual Head Usage Hours or } 1,500)}{1,500 \text{ Hours}}$
• J/JH Series Compact Player	• Parts	One (1) year, except the VTR Drum assembly, which is warranted for ninety (90) days
• GY Series DTF Data Tape Drive	• Parts	One (1) year, except Upper Drum Assembly, which is warranted for 2,000 operating hours or one (1) year, whichever occurs first. During warranty period, full credit towards Upper Drum replacement provided for the first 1,000 hours and if operating hours exceeds 1000 then credit towards replacement prorated as follows: $\text{Credit} = \frac{\text{Current Assy Price} \times (2,000 \text{ Hours} - \text{Actual Head Usage Hours})}{1,000 \text{ Hours}}$
• CSM Library, PDJ series XDCAM Cart	• Labor	One (1) year on-site
• SAIT (stand alone) and CSMADR Library Drives	• Labor • Parts	Three (3) years Three (3) years, exchange program included
• MAV Server	• Parts	One (1) year, except Hard Disk Drive, which is warranted for five (5) years.
• STAS-I0/SIU-80 FlexSys	• Parts	One (1) year, except Hard Disk Drive, which is warranted for five (5) years.
• VST/VSR/VSH	• Parts	One (1) year, except Hard Disk Drive, which is warranted for five (5) years.
• Videostore	• Parts	One (1) year, except Hard Disk Drive, which is warranted for five (5) years.
• HVR Series VTR	• Labor • Parts	One (1) year One (1) year with the exception of the drum assembly which is warranted for ninety (90) days
• DVO-1000MD	• Labor	One (1) year
• HDXchange System	• Labor	One (1) year
Camera Products		
PRODUCT MODEL SERIES	LIMITED WARRANTY COVERAGE PERIOD	
• BVP/DXC Camera	• Labor • Parts	One (1) year One (1) year, except CCD Prism Block Assembly, which is warranted for two (2) years.
• RCP-D50/D51	• Labor	One (1) year
• DNW/DNV One-Piece Camcorder and Dockable Recorder	• Labor • Parts	One (1) year One (1) year, except CCD Prism Block Assembly, which is warranted for two (2) years.
• DSR Camcorder	• Labor • Parts	One (1) year One (1) year, except a.) VTR Drum assembly, which is warranted for ninety (90) days and b.) Camcorder CCD Prism Block Assembly, which is warranted for two (2) years.
• BVW/BVV/DVW/PVV/UVW/MSW One-Piece Camcorder and Dockable Recorder	• Labor • Parts	One (1) year One (1) year, except a.) Camcorder Camera CCD Prism Block, which is warranted for two (2) years, and b.) Rotary Upper Drum Assembly, which is warranted for 1,000 operating hours or one (1) year, whichever occurs first. During warranty period, full credit towards replacement provided during first 500 hours and if operating hours exceeds 500, then credit towards replacement prorated as follows: $\text{Credit} = \frac{\text{Current Assy Price} \times (1,000 \text{ Hours} - \text{Actual Head Usage Hours})}{500 \text{ Hours}}$
• HDC/F23/F35 Camera and HDW Camcorder • HSC-300K • HXC-100K	• Labor • Parts	One (1) year One (1) year, except a.) CCD Prism Block, which is warranted for two (2) years as follows: Full credit towards replacement during the first twelve (12) months. Thereafter, credit towards replacement prorated as follows: $\text{Credit} = \frac{\text{Current Assy Price} \times (\text{Balance of Warranty Period Expressed in Months})}{12 \text{ Months}}$ and b.) HDW Camcorder Rotary Upper Drum Assembly, which is warranted for 1,000 operating hours or one (1) year, whichever occurs first. During warranty period, full credit towards replacement provided during first 500 hours and if operating hours exceeds 500, then credit towards replacement prorated as follows: $\text{Credit} = \frac{\text{Current Assy Price} \times (1,000 \text{ Hours} - \text{Actual Head Usage Hours})}{500 \text{ Hours}}$



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• CCB Series Camera • EVI-300/400 Series • FCB Series Color Camera Module	• Labor • Parts	Six (6) months Six (6) months
• CCM, DFW, EVI-R, XCD Series Camera • EVI-D/EVI-G Series Pan, Tilt, Zoom Color Camera	• Labor	One (1) year
• XC Series Camera	• Labor • Parts	Three (3) years Three (3) years
• PDW-500 Series SD Cameras • PDW-700 HD 422 Camera	• Labor • Parts	One (1) year One (1) year except a) CCD Block which is warranted for two (2) years and b) the Optical Drive System which consists of the BRD-P1, BRD-P2, BRD-P100 assemblies, optical laser block, loader and seek motor which are warranted for seven (7) years parts & labor.
• PDW-F300 Series HD Cameras	• Labor • Parts	Two (2) years Two (2) years Product warranty inclusions: • Priority Depot service. • Periodic maintenance performed per manufacture specifications. • Software support including priority telephone support. • Toll-free telephone technical support during normal business hours; 8:30 A.M. -8 P.M. EST (English language) or 8:30 A.M. – 5:00 P.M. EST (Spanish language) except Sony holidays.
• PDW-F800 HD422 Camera	• Labor • Parts	One (1) year One (1) year except a) CCD Block which is warranted for two (2) years and b) the Optical Drive System which consists of the BRD-P1, BRD-P2, BRD-P100 assemblies, optical laser block, loader and seek motor which are warranted for seven (7) years parts & labor
• HVR Series Camcorder	• Labor • Parts	One (1) year One (1) year with the exception of the drum assembly which is warranted for ninety (90) days.
• BRC-300, BRC-H700	• Labor • Parts	One (1) year One (1) year, except the CCD Block which is warranted for two (2) years.
• HDVF-20A, F700A, F9900 • HDVF-C30W, 700W, 730W	• Labor	One (1) year
• PMW-EX1, PMW-EX1/R, PMW-EX3 • PMW-350K, PMW-350L • PMW-10MD	• Labor	One (1) year
Display Products		
PRODUCT MODEL SERIES	LIMITED WARRANTY COVERAGE PERIOD	
• FWD-LX2 Series Professional • KLH-40X1, 40X1/S, 40X1/SS, 40X1/ST, 40X1/T • KLH-W26, W26/S, W26/ST, W26/T, W32, W32/S, W32/ST, W32/T	• Labor • Parts	Two (2) years Two (2) years, except the panel, which is warranted against defect for one (1) year. Normal wear (decreased brightness) and image retention (permanent imprint of stationary images on the plasma display) are not covered. Product Warranty Inclusions: • At Sony's discretion, Sony will provide on site service for all defects covered by standard warranty or arrange, at Sony's cost, the exchange of a same or similar refurbished product for the defective unit within the standard warranty period but outside 30 day period following purchase. • 30 Day OBF Replacement: Exchange provided for all defects covered by standard warranty and reported within first 30 days following purchase. *FOR IMPORTANT ADDITIONAL TERMS, CONDITIONS, AND LIMITATION APPLICABLE TO THESE PROGRAMS, PLEASE VISIT HTTP://WWW.SONY.COM/PROFESSIONALSERVICES/WARRANTY/DISPLAY



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- FWD-S42H1/S47H1 - GXD-L52H1/L65H1	- Labor - Parts	Three (3) years Three (3) years Product Warranty Inclusions: - At Sony's discretion, Sony will provide on site service for all defects covered by standard warranty or arrange, at Sony's cost, the exchange of a same or similar refurbished product for the defective unit within the standard warranty period but outside 30 day period following purchase. 30 Day OBF Replacement: Exchange provided for all defects covered by standard warranty and reported within first 30 days following purchase. *FOR IMPORTANT ADDITIONAL TERMS, CONDITIONS, AND LIMITATION APPLICABLE TO THESE PROGRAMS, PLEASE VISIT HTTP://WWW.SONY.COM/PROFESSIONALSERVICES/WARRANTY/DISPLAY
- KDL-32M4000/9, 32M4000/91, 32M4000/92, 32M4000/93, 32M4000/95, 32M4000/98 - KDL-37M4000/9, 37M4000/91, 37M4000/92, 37M4000/93, 37M4000/95, 37M4000/98 - KDL-32S5100/9, 40S5100/9, 46S5100/9, 52S5100/9 - KDL-40SL140/9, 40SL140/91, 40SL140/92, 40SL140/93, 40SL140/98 - KDL-46SL140/9, 46SL140/91, 46SL140/92, 46SL140/93, 46SL140/95, 46SL140/98	- Labor - Parts	Two (2) years Two (2) years Product Warranty Inclusions: - At Sony's discretion, Sony will provide on site service for all defects covered by standard warranty or arrange, at Sony's cost, the exchange of a same or similar refurbished product for the defective unit within the standard warranty period but outside 30 day period following purchase. 30 Day OBF Replacement: Exchange provided for all defects covered by standard warranty and reported within first 30 days following purchase. *FOR IMPORTANT ADDITIONAL TERMS, CONDITIONS, AND LIMITATION APPLICABLE TO THESE PROGRAMS, PLEASE VISIT HTTP://WWW.SONY.COM/PROFESSIONALSERVICES/WARRANTY/DISPLAY
PVM (OLED Model)	- Labor - Parts	Three (3) years Three (3) years
- BVM, BVML, BVMD, PVM, PVML, PVM/MD, RVP, SRM, VPH, PGM - LMD-181MD series - LMD-4420 - DSC-1024HD	- Labor - Parts	Two (2) years Two (2) years
BVM-A Series	- Labor - Parts	Two (2) years Two (2) years with the exception of the CRT which is warranted for one (1) year.
VPL-C/D/E/F/M/P Series Front Projector Products	- Labor - Parts	Three (3) years except units purchased before March 2005 which were warranted for two (2) years. Three (3) years, except (a) the LMP series projector lamp which has a ninety (90) day limited warranty period and (b) units purchased before March 2005 which were warranted for two (2) years with the exception of the LMP series projector lamp which was warranted for ninety (90) days (c) the optical block assembly is covered for three (3) years or 2500 hours, whichever occurs first for units purchased between April 2005 to May 2008. OTS Loaner Unit: Available during 1st year after product purchase. * FOR IMPORTANT ADDITIONAL TERMS, CONDITIONS, AND LIMITATIONS APPLICABLE TO THIS PROGRAM, PLEASE VISIT WWW.SONY.COM/PROFESSIONALSERVICES/WARRANTY/OTS
VPL-FH300/FW300	- Labor - Parts	Three (3) years Three (3) years, except (a) the LMP series projector lamp which has a ninety (90) day limited warranty period
VPL-VW100/P	- Labor - Parts	Three (3) years Three (3) years, except (a) the LMP series projector lamp which has a ninety (90) day limited warranty period
LMD-150,170W, 210, 230W, 230W/2 320W, MEUWX1	- Labor - Parts	Five (5) years. Five (5) years.



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- LMD-152,171W,172W, 212,232W,322W,1750W, 2030W,2050W,2450W, 2451W, 4250W, 9050, 940W - LMD-1420MD, 1530MD, 1950MD, 2140MD series, 2450MD 2451MD, 3250MD, MEUWX2	- Labor - Parts	Three (3) years Three (3) years
- SRX-R105,110, SRX-S105,110 - SRX-T105,110,420 - LKRI-001,002,003,004, 005 - LKR-LZ115, 117, 119, 122, 140	- Labor - Parts	One (1) year on-site. One (1) year, except the LKR-X100 series projector lamp which is warranted for 90 days or 200 hours whichever occurs first.
- SRX-R200 Series Digital Cinema Systems and Projectors - SRX-R320 Digital Cinema Projector - LKR-LZ111C, 114C, 116C	- Labor - Parts	Two (2) years on-site Two (2) years, except the LKR-X series projector lamps which are warranted from non ignition or rupture as follows: 2.0 kW- 2400 hours 3.0 kW- 1000 hours 4.2 kW- 500 hours
LMT Series Media Block	- Labor - Parts	Two (2) years on-site Two (2) years
BZMD-1000 ImageCoreHD	- Labor - Parts	Two (2) years Two (2) years
VSP-NS7	- Labor - Parts	Two (2) years Two (2) years
Printer Products		
PRODUCT MODEL SERIES	LIMITED WARRANTY COVERAGE PERIOD	
- UP series, UP-C series, UP-D series, UP-D75MD, UP-D74XRD - UP-DR80/DR80MD	- Labor - Parts	One (1) year One (1) year, except a.) Thermal Head, which is warranted for ninety (90) days, and b.) UP-D70, UP-D75, UP-D75MD, UP-D74XRD, UP-DR80/DR80MD and UP-CR series printer Thermal Head which is warranted for one (1) year or 10,000 prints, whichever occurs first.
UP-D "MD" suffix Printers, UP-D72XR	Labor	One (1) year
UPX ID Printer System	Labor	One (1) year
UPD-77MD		Product warranty inclusion: One (1) year advanced product exchange. * FOR IMPORTANT ADDITIONAL TERMS, CONDITIONS, AND LIMITATIONS APPLICABLE TO THIS PROGRAM, PLEASE VISIT WWW.SONY.COM/PROFESSIONALSERVICES/WARRANTY/AE
UPD-F500 Digital Film Imager, UPD-F550, UPD-F750 Dual Tray Film Imager	- Labor - Parts	One (1) year One (1) with exception of thermal head which is warranted for 3yrs or 50K prints, whichever comes first
UPD-F500/M1 FilmStation		Product warranty inclusion: Four (4) years advanced product exchange. * FOR IMPORTANT ADDITIONAL TERMS, CONDITIONS, AND LIMITATIONS APPLICABLE TO THIS PROGRAM, PLEASE VISIT WWW.SONY.COM/PROFESSIONALSERVICES/WARRANTY/AE
UPD-F500/M2 FilmStation		Product warranty inclusion: Five (5) years advanced product exchange. * FOR IMPORTANT ADDITIONAL TERMS, CONDITIONS, AND LIMITATIONS APPLICABLE TO THIS PROGRAM, PLEASE VISIT WWW.SONY.COM/PROFESSIONALSERVICES/WARRANTY/AE
UPA-PC Series and UPA-PSPAC Picture Station Digital Photo Finishing System	Labor	One (1) year
UP-970AD, 990AD	Labor	One (1) year



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Security Products		
PRODUCT MODEL SERIES	LIMITED WARRANTY COVERAGE PERIOD	
• SNC series Network Cameras	• Labor	One (1) year
• SSC series Video Camera	• Labor • Parts	Three (3) years Three (3) years except the camera lens which is warranted for one (1) year
• LMD series monitors	• Labor	One (1) year
• HSR, HSRA series Digital Video Recorder	• Labor • Parts	Two (2) years Two (2) years
• SNT series Video Servers	• Labor	One (1) year
• NSR Series Network Surveillance Recorder	• Labor	One (1) year
• YS, YT, SNCA, NSBK, UNI, RMM accessories	• Labor	One (1) year
Other Products		
PRODUCT MODEL SERIES	LIMITED WARRANTY COVERAGE PERIOD	
• DMX-R100 Digital Audio Mixer	• Labor	One (1) year
• Wired Microphone	• Labor	One (1) year
• ES-7 / ES-3 Edit Station	• Parts	One (1) year, except ES-7 Hard Disk Drive, which is warranted for five (5) years.
• DMW Series XPR1 Editor	• Parts	One (1) year, except DMW-ST001/2 and OS Hard Disk Drive warranted for three (3) years.
• LLC Learning Systems	• Labor • Parts	Two (2) years Two (2) years, except LL Control Console circuit boards, which are warranted for three (3) years.
• PCS-1/11/ TL30/TL50/ G50/70 Series/PCS-HG90 Videoconference Systems	• Labor	One (1) year
• FIU-710 Fingerprint ID Unit • FIUK-100 USB Serial Cable	• Parts	One (1) year on hardware only
• MVS-6000, MVS-8000A, MVS-8000G, DVS-9000	• Labor • Parts	Two (2) years Two (2) years Product warranty inclusions: • Next business day on-site priority response. • Periodic maintenance performed per manufacturer's specifications. • Software support including priority telephone support. • Toll-free telephone technical support 24/7/365 (English language only)
• HXCU-100K • HSCU-300K	• Labor	One (1) year
• DFS-800	• Labor	One (1) year

During the labor warranty period, to repair the Product, Purchaser will either return the defective Product, freight prepaid, or deliver it to a Sony Service Center or to a service facility authorized by Sony. The Product to be repaired is to be returned in either its original carton or a similar package affording an equal degree of protection. Sony will return the repaired Product freight prepaid to Purchaser. All freight costs associated with replacement of warranty parts after expiration of the original labor warranty period are the responsibility of the Purchaser. Sony is not obligated to provide Purchaser with a substitute unit during the warranty period or at any time. For an additional fee, Sony field service and support at the Purchaser's location is available to Purchaser at Sony's prevailing per incident billable rates for such service subject to availability.

The limited warranty stated on this card is subject to all of the following terms and conditions.

TERMS AND CONDITIONS

1. NOTIFICATION OF CLAIMS: WARRANTY SERVICE: If Purchaser believes that the Product is defective in material or workmanship, then written notice with an explanation of the claim shall be given promptly by Purchaser to Sony but all claims for warranty service must be made within the warranty period. **If after investigation Sony determines that the reported problem was not covered by the warranty, Purchaser shall pay Sony for the cost of investigating the problem at its then prevailing per incident billable rate.** No repair or replacement of any Product or part thereof shall extend the warranty period as to the entire Product. The specific warranty on the repaired part only shall be in effect for a period of ninety (90) days following the repair or replacement of that part or the remaining period of the Product parts warranty, whichever is greater.

2. EXCLUSIVE REMEDY: ACCEPTANCE: Purchaser's exclusive remedy and Sony's sole obligation is to supply (or pay for) all labor necessary to repair any Product found to be defective within the warranty period and to supply, at no extra charge, new or rebuilt replacements for defective parts. If repair or replacement fails to remedy the defect, then, and only in such event, shall Sony refund to Purchaser the purchase price for such Product. Purchaser's failure to make a claim as provided in paragraph 1 above or continued use of the Product shall constitute an unqualified acceptance of such Product and a waiver by Purchaser of all claims thereto.

3. EXCEPTIONS TO LIMITED WARRANTY: Sony shall have no liability or obligation to Purchaser with respect to any Product requiring service during the warranty period which is subjected to any of the following: abuse, improper use; negligence, accident, modification, failure of the end-user to follow the operating procedures outlined in the user's manual, failure of the end-user to follow the maintenance procedures in the service manual for the Product where a schedule is specified for regular replacement or maintenance or cleaning of certain parts (based on usage) and the end-user has failed to follow such schedule; attempted repair by non-qualified personnel; operation of the Product outside of the published environmental and electrical parameters, or if such Product's original identification (trademark, serial number) markings have been defaced, altered, or removed. Sony excludes from warranty coverage Products sold AS IS and/or WITH ALL FAULTS and excludes used Products which have not been sold by Sony to the Purchaser. Sony also excludes from warranty coverage consumable items such as fuses and batteries.

All software and accompanying documentation furnished with, or as part of the Product is furnished "AS IS" (i.e., without any warranty of any kind), except where expressly provided otherwise in any documentation or license agreement furnished with the Product.

4. CUSTOMER DATA

Customer shall be solely responsible for maintaining backup data necessary to replace Customer data lost or damaged from any cause.

5. PROOF OF PURCHASE: The Purchaser's dated bill of sale must be retained as evidence of the date of purchase and to establish warranty eligibility.

6. PRODUCT REGISTRATION: Registration of any Product or of this limited warranty is voluntary; failure to register will not diminish any rights available under this warranty.

DISCLAIMER OF WARRANTY

EXCEPT FOR THE FOREGOING WARRANTIES, SONY HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO ANY AND/OR ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND/OR ANY WARRANTY WITH REGARD TO ANY CLAIM OF INFRINGEMENT THAT MAY BE PROVIDED IN SECTION 2-312(3) OF THE UNIFORM COMMERCIAL CODE AND/OR IN ANY OTHER COMPARABLE STATE STATUTE. SONY HEREBY DISCLAIMS ANY REPRESENTATIONS OR WARRANTY THAT THE PRODUCT IS COMPATIBLE WITH ANY COMBINATION OF NON-SONY PRODUCTS PURCHASER MAY CHOOSE TO CONNECT TO THE PRODUCT.

LIMITATION OF LIABILITY

THE LIABILITY OF SONY, IF ANY, AND PURCHASER'S SOLE AND EXCLUSIVE REMEDY FOR DAMAGES FOR ANY CLAIM OF ANY KIND WHATSOEVER, REGARDLESS OF THE LEGAL THEORY AND WHETHER ARISING IN TORT OR CONTRACT, SHALL NOT BE GREATER THAN THE ACTUAL PURCHASE PRICE OF THE PRODUCT WITH RESPECT TO WHICH SUCH CLAIM IS MADE. IN NO EVENT SHALL SONY BE LIABLE TO PURCHASER FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND INCLUDING, BUT NOT LIMITED TO, COMPENSATION, REIMBURSEMENT OR DAMAGES ON ACCOUNT OF THE LOSS OF PRESENT OR PROSPECTIVE PROFITS OR FOR ANY OTHER REASON WHATSOEVER.

For further information and the name of the nearest authorized Sony service facility contact:

United States of America
Sony Electronics Inc.
Professional Solutions of America
Customer and Engineering Services
1 Sony Drive
Park Ridge, New Jersey 07656
(201) 930-1000

EXHIBIT F CABLE, CONNECTOR AND LABELING SPECIFICATIONS

1. Cable

- (a) The Integrator shall provide a recommended color code scheme for all cabling. Once approved by City, the Integrator will conform to this color code for the duration of project. The Integrator will acquire and install the best specified cable for all workflow areas. Any substitutions will need to be approved by the KCLV Project Manager.
- (b) The following plenum and/or non-plenum rated cables are required:
 - (i) Video cable
 - (ii) Audio cable
 - (iii) Control cable
 - (iv) Fiber Optic cable
 - (v) Ethernet cable

2. Connectors

- (a) Each audio, video, and control connection will be properly crimped or soldered as appropriate
- (b) Each connection will be made using the manufacturer approved and specified tool, die set and methodology
- (c) Each ferrule will be evenly and completely crimped on all sides
- (d) Exposed or excess braid will be not be acceptable
- (e) All future video, audio, data and control cables will be properly terminated
- (f) Video Connectors
 - (i) All BNC connectors will be Canare BCP-C type to match cable. All BNC terminators will be the Canare BCP-TA.

3. Audio Connectors

- (a) All connectors will be Neutrix, Switchcraft or equivalent.
- (b) All 1/4", RCA type, 1/8" phono, mini-phono, or other Tip-Ring-Sleeve type connectors will have steel jacket hoods or shells.
- (c) Standard 3 wire convention will be used : Pin 1 Ground (Shield), Pin 2 Hi, Pin 3 Low
- (d) Grounding conventions will be as described in the attached system drawings.
- (e) All 1/4" phone, RCA type, 1/8" phone, mini-phone, and all cable connector assemblies will have each wire soldered as required.
- (f) All audio cable connections will use shrink-wrap tubing to strain relief and protect the connection from shorting.
- (g) All drain wires will have Teflon tubing applied to completely cover and insulate the drain.

4. Control Connectors

- (a) All connectors will have strain relief shells.
- (b) All connections will be crimped, with the factory approved tool and method, or soldered, as appropriate.

5. Labeling

- (a) The Integrator will provide all material and labor to properly label all cables and equipment using the guidelines outlined in this section.
- (b) The Integrator will provide and install identification labels at designations for all jack points and patch bays, distribution equipment, major systems components, or wherever deemed necessary by City.
- (c) All label identifications will be added to and included in the drawings.
- (d) Cable Labeling
 - (i) Labels will be computer printed and self-laminating.
 - (ii) The placement of wire labels will be uniform at not less than 1" from the end of the connector. Each cable end will be identified with a single label that will identify the cable number, source device or location and destination device or location.
 - (iii) All cable labels will face the same direction on all cables.
 - (iv) The Integrator will supply the wire run list, in hard copy and electronic form.
- (e) Patch Bay Labeling
 - (i) All patch bay patch identification strips will indicate source, destination, and/or the name of the signal on each patch point.
 - (ii) As part of the system documentation, Integrator will supply a full-scale plot of each patch panel label strip.
- (f) Equipment Labeling
 - (i) All terminal equipment frames will be labeled. These will identify both the frame, card, and signal.
 - (ii) All video monitors will have a label affixed to the front of the equipment to ID that unit.
 - (iii) All system components will be labeled with nomenclature as directed by the City.
- (g) Control Panels and Other Labeling
 - (i) All custom and OEM control panels will require appropriate labeling.
 - (ii) The Integrator will be responsible for labeling all buttons, key-caps, overlays, and other necessary nomenclature as directed by the City.
 - (iii) All system components will be labeled and identified on the schematic drawings, on elevation views, and in the equipment inventory database.
- (h) Power Strip Labeling
 - (i) All power strips will be labeled with the circuit box and circuit breaker number as directed by City.
 - (ii) All rack power strips shall be marked with the associated electrical panel and circuit nomenclature.

Date:

Project: <insert project name>

Presented to:

Contact Number

Sony Contact:

Tel: (408) 352-4241

[illegible]

Expires in 5 days. Tax is not included.

Estimated contract amount before change order approval		
Revised estimated contract amount upon approval	\$	-

Approvals:

Customer Name

Sony Electronics Inc

Date:

Date:

