GREENVILLE UTILITIES COMMISSION ENGINEERING AND OPERATIONS BUILDING DRAWING SUBMITTAL SET (12/07/2018)

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		PROJECT NUME	BER
4 DIGIT PROJECT IDENTIFICATION N	UMBER	4634	
		DRAWING NUME	BER
DRAWING SHEET IDENTIFICATION N	UMBER	K201A	
LETTER DESIGNATION 'K' INDICATES	S MAUELL MANUFACTURING DRAWING		
1ST DIGIT INDICATES DRAWING TYP	E		k k
2ND/3RD DIGIT INDICATES COMPON	ENT IDENTIFICATION (CONSOLE TYPE #7	I) <u> </u>	K K
LETTER INDICATES SUB DRAWING C	OF COMPONENT (INFORMATION OVERFL	OW)	l N
	GENERAL NOT	ES/CONSO	
NOTE: ADDITIONAL CONSOLE FEATU (FRONT AND REAR OF CONSOLE), D HIGH PRESSURE ABRASION RESIST DENSITY PARTICLEBOARD SUBSTRA	JRES INCLUDE MODULAR POWDER COA UAL CABLE MANAGEMENT TRAYS (FROM ANT LAMINATE CLADDING (STYLE AND C ATE, AND ERGONOMIC MEGANITE WORK	TED STEEL FRAMI IT AND REAR OF C OLOR DETERMINE SURFACE EDGING	NG, EUF ONSOL D BY C G.
	VIDE	O WALL SU	JRFA
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2.) EXTERNAL SURFACES P-LAM:	WILSONART "VERANDA TEAK" #8209K	-28	2.) SURI
	CABINET & V	VORK SUR	FAC
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DRAWING #	DRAWING TYPE	K001	SPECIFICATIONS	REV DATE COMMENTS 12/12/19 ISSUE FOR BIDDING 12/12/19 ISSUE FOR BIDDING	
K100'S	SPATIAL/LAYOUTS	K002	CONSOLE ACCESSORY SCEDULE	12/12/19	ISSUE FOR BIDDING
K200'S	CONSOLE DRAWINGS				
K300'S	CASEWORK DRAWINGS	K100	FLOOR PLAN	12/12/19	ISSUE FOR BIDDING
K400'S	MAPBOARD DRAWINGS	K101	LIGHTING PLAN	12/12/19	ISSUE FOR BIDDING
K500'S	AUDIO/VISUAL DRAWINGS	K102	PLAN ELEVATIONS	12/12/19	ISSUE FOR BIDDING
K600'S	MISCELLANEOUS				
NOTES:		K201	CONSOLE TYPE 1 - OVERVIEW	12/12/19	ISSUE FOR BIDDING
FEATURE	S				
		K301	CASEWORK TYPE 1 - OVERVIEW	12/12/19	ISSUE FOR BIDDING
IROPEAN STYLE	HIDDEN HINGE DOORS	K302	CASEWORK TYPE 2 - OVERVIEW	12/12/19	ISSUE FOR BIDDING
LE), INTEGRATE CUSTOMER) WI	D POWER DISTRIBUTION,	K303	CASEWORK TYPE 3 - OVERVIEW	12/12/19	ISSUE FOR BIDDING
		K501	VIDEO DISPLAY WALL - OVERVIEW	12/12/19	ISSUE FOR BIDDING
ACE FINIS	DHES				
	ACOUSTICAL PANEL/UPPER CLADDING				
RE MATERIAL:	1" THICK ACOUSTICAL PANEL				
RFACE FINISH:	GUILFORD OF MAINE FRAMEWORK FABRIC "GRAY BLUE" #2553				
E FINISH	SCHEDULE				
W	ORK SURFACES MATERIALS AND FINISHES	1			
RE MATERIAL:	1" THICK PARTICLE BOARD				
RFACE LAMINAT	E: WILSONART "WHITE TIGRIS" #4783-60				
BER "T" NOSIN	G: BLACK				
RK SURFACE EI	DGE: MEGANITE "EBONY GRANITE" #710				
CCESSORIES A	RE BLACK FINISH				



OPERATOR CONSOLE SYSTEM SPECIFICATION:

MECHANICAL REQUIREMENTS

The operator console system shall provide owner with a robust, aesthetic, and ergonomic workstation system. The entire operator console system shall accommodate the following functional requirements :

- **Desktop Task Light** Each console shall be equipped with LED desktop lights to ensure adequate work Accommodations of a full range of computers, monitors, printers, power distribution, telecommunications gear surface illumination at each operator position. These task lights shall have the identical finish of the desk monitor articulation arms. The lights shall be at least 225 lumens, dimmable, 3000K or 3500K color and operator interface devices. temperature, power consumption less than 7 watts. The task lights shall use an articulating arms style to Shall be of modular design for ease of facilitating future equipment retrofits and reconfigurations without major modification to the base unit, interior components and exterior panels. reposition the light with a minimum reach of 25". The task lights shall have replaceable LED elements in the Materials must be of industrial grade designed to withstand continuous 24 hours a day, 365 days a year of use. even of failure. **Rack Rail System -** System components, where applicable, shall be mounted within a console bay using rack rails to accept 19" rack able equipment. The rack system shall be mounted within the console as specified by Structural A combination of formed & welded 14 gauge steel, with perforated horizontal channels to form a modular box owner as needed. Millwork structure, frame or bay. Vertical Panels, including doors - All exterior panels (vertical surfaces) for the operator console system shall be Bay frames to be powder coated texture black (matte or satin) to ensure no corrosion. supported by and enclose the structural base, where applicable. The panels should be easily removed for The console base frame system to be open at the bottom of the structure to accept cabling from underneath. anti-corrosive finish. Manufacturing tolerances shall be: Linear +/- 1mm per weldment / part / assembly. convenient access to the equipment mounted in the console. The supplier must provide materials that meet Leveling foot pads having a minimum of 1.375" vertical height adjustment for leveling on existing floor. the following minimum requirements. Ventilation to support convection cooling of the PC's and other powered peripherals housed within. Ventilation Cladding shall be attached to console frame with concealed fastening fans (other than those standard within PC's) are not accepted as a method of maintaining ambient air Equipment facings are easily removed without the use of tools for quick access. Both front and rear doors to be hinged. All casework panel hinges to be 125° concealed, snap on temperature to support PC operation. However, ventilation fans may be necessary in targeted areas where mounting, with 3 point adjustment. racked components reside and additional ventilation is required. Bolted together to create a uniform ground. 1 ground stud per operator console position shall be included in 1 Enclosure panels, access doors and panels shall be covered on all surfaces and manufactured with $\frac{11}{16}$ bay to complete the ground circuit. Owner to connect to ground stud. industrial grade particle board core or MDF, with minimum density of 45 pounds and edge banded with a Support the exterior panel elements, door hinges and the various equipment mounting kits and accessories, minimum of .5mm PVC edge banding. Interior surfaces are to be black laminate (HPL) while exterior such as slide out processor trays, storage shelving, rack rails, etc... surfaces to be laminate color of customer's choice (HPL). Minimum requirements are a VPG Type 335, Readily accept future reconfigurations and additions with no on site cutting, drilling or machining is required. interior and exterior laminates to be the same thickness to insure a balanced panel. This is with the exception of the desktop surface. All panel equipment cutouts shall be custom sized for each piece of equipment. Adequate cable management raceways. Each unit to be constructed to provide a clear access way for wires minimal restriction. No detail shall be permitted which causes eye distraction. and cables to be routed from one end of the fully assembled console to the other with minimal restriction. Door and drawer pull handles to be ADA compliant. Cable raceways should allow for cable drops at any point in the horizontal run. Panduit style raceways are not Drawers - All drawer units must be of box design and use dovetail construction at the joints. Drawer faces Cladding acceptable. should be screwed to box construction. Drawer construction to be a minimum $\frac{1}{2}$ " thick solid wood. All box drawers designated for file storage should include file folder hanging rack systems suitable for storing 8.5"x11" PC slide-out tray with 360° swivel - Tray to be securely attached to the bay structure and allow access to the documents within hanging folders. Each drawer slide should be: PC from both the front and the rear of the bay. PC storage must be a minimum of 20"H x 20"W x 12"D. PC Rated for a minimum of 100 pound load capacity for all utility drawers. tray to be powder coated texture black (matte or satin). structure. Rated for a minimum of 150 pound load capacity for all file box drawers and map box drawers. **Industrial Power Strip** - Power strip to include over current protection via circuit breaker. Extension cords will All drawers rated for 100 pound load capacity or less (box drawers) must include self-closing mechanism not be accepted. Each power strip should have sufficient cord length to run from one side of the console to the at the end of the slide travel. other and reach the outlets near the ends of each operator location. All electrically operated hardware shall be the following minimum requirements. Countertops - The horizontal work surface shall be constructed to meet the following: plugged directly to the provided power strips located in each console. The power strips shall conform to the High-pressure post form grade high wear plastic laminate type HW350 on work-surface. Bottom of following requirements: surface to be finished with equivalent type laminate in a black finish on 1" industrial grade particle board All metal housing core, with a minimum density of 45 pounds. 6 outlets Supplier shall recommend a work surface edge trim at operator interface or position that shall be Heavy duty, 14/3 SJTW cord with integral molded plug NEMA 5-20P constructed in a manner that conforms to sound ergonomic practices. This must be a robust solution

- -Structural The operator console frame system shall be constructed with the following components:

Components

- Integrated 20A, 120 VAC circuit breaker
- CSA Certified UL 1363 listed in the United States
- **Grommets** Included as per drawings, 3.25" grommet hole with plastic grommet and press fit cover with a 3" nominal hole. Grommets to be matte black.
- **Slat wall system / monitor mounts** Each console shall be equipped with a quantity of fixed position tilt/swivel monitor mounts to achieve a clean monitor bank array. These mounts will attach to a multi-use slat wall system . The slat wall system rail elevation to be installed so that top of monitors do not exceed 40" AFF at seated position, this is to maintain proper sight lines throughout the room. The slat wall system rail height is not permitted to be taller than 4". Peripheral displays may require alternative mounting utilizing dynamic adjustable mounts. Other monitor mounting types (such as full articulating) may be permitted but must be approved by the owner.
- Work surface lift feature Consoles shall have a sit/stand (height adjustable) capable work surface as shown in the included drawings that will raise the entire operator position via a desktop mounted control with LED height indication with 3 user programmable presets. The operation of the sit/stand mechanism is to be a series of synchronized individual enclosed motorized linear actuators capable of lifting a distributed load of at least 70 pounds per linear foot at a speed of 1.5" per second. Each actuator to have a point load of 280 pounds per column. Console manufacture shall list the minimum and maximum height adjustment constraints within industry standard ergonomics. Where instances occur where work surfaces are right next to each other, a 2" minimum gap is required for safety to avoid any pinch points.
- that will hold up to the rigors of a 24/7 operation. Standard T-mold profiles will not be accepted. Rubberized or texture coated profiles will not be accepted. Acceptable materials for this application are solid surface only, such as Corian, Meganite or Zodiac.

Power and Signal units - Each console shall be equipped with auxiliary Power and Signal utilities across the

console work surface. These utilities shall be configurable to be populated as required by the owner. These

utilities should be conveniently located for easy connection by operator.

- The work surface edge trim on 3 sides shall be milled in the same profile and use the same material. All work surface laminates will be determined by owner during the submittal phase.
- The work surface edge trim on the rear of all consoles shall be flush edge t-molding.
- The work surface design sit down height shall be a minimum of 27" and a maximum of 30" above the finished floor.
- Options for horizontal and vertical laminated surfaces shall be presented to owner as options after the -contract has been awarded, premium selections must be made available.

MECHANICAL REQUIREMENTS

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K201-2	SYSTEM DISPATCHER		"	"		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
K201-3	SYSTEM DISPATCHER	" "	"	"		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
K201-4	FUTURE	" "	"	"		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
K201-5	SUPERVISOR	" "	"	"		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
K201-6	SECURITY		"	"		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
K201-7	FUTURE	" "	"	"		"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"
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12'-4" $14'-11\frac{15}{16}$ FOCUS RAIL HORIZ. FOR MONITOR, TASK LIGHT MOUNTING RUBBER "T" MOLDING RADIO UNIT, SPEAKER BAR, MICROPHONE SLOTTED GROMMET FOR DISPLAY MOUNT & CABLING ERGONOMIC NOSING POWER/DATA POP-UP UNIT WORKSURFACE CONTROLS WORK SURFACE PLAN - CONSOLE - (2) AS SHOWN ; (3) MIRROR LIFTING ACTUATOR 6 OUTLET 20AMP POWER STRIP CABLE DROP CPU TRAY - SLIDE/PIVOT BOX / BOX / FILE STOR. UNIT BASE PLAN - CONSOLE - (2) AS SHOWN ; (3) MIRROR







2 K201









3 K301 SIDE

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