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County Manager

October 31, 2022

SANTA FE COUNTY
IFB 2023-0032-PW/APS
CERRILLOS SENIOR CENTER AND
TURQUOISE TRAIL FIRE STATION #3

ADDENDUM NO. 2

Dear Proponents,

This addendum is issued to reflect the following immediately. It shall be the responsibility of interested Bidders to adhere to any changes or revisions to the IFB as identified in this Addendum No. 2. This documentation shall become permanent and made part of the departmental files.

CLARIFICATIONS

A- General Clarifications:

- 1- Fencing around site is not required by contract; see revised specification section 01-5000. This does not absolve contractor of responsibilities to maintain a safe site and protect the public from and dangerous or possibly harmful conditions. Furthermore, per the specifications, it is the contractor's responsibility to protect the materials and equipment on site.**
- 2- The vehicle exhaust system for the fire station shall be provided by others (owner provided and installed).**
- 3- The Senior Center finished floor is 100'-0". The Fire Station finished floor is 99'-0" per the Architectural and Structural Drawings. The Mechanical, Electrical and Plumbing plans show the incorrect finished floor height for the fire station and should be ignored with regard to this information.**

B- Changes to Specifications:

- 1- See revised specification Section 01-5000 TEMPORARY FACILITIES AND CONTROLS. Item "1.05 FENCING" has been revised.**

C- Changes to Drawings:

- 1- Two versions of sheet M701 were included in error. Both should be removed and ignored. For clarity the attached M701 should be used and supersede both previous versions.**
 - 2- Sheet P701 was omitted in error. See provided Sheet P-701.**
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Question No. 1: The elevation for the slab of the Apparatus Bay is shown as both 99' and 100'. Which is correct? Furthermore, if the slab elevations is 99', it would appear that the top of footing elevation is shown incorrectly. In addition, there are quite a few spot footings with no top of footing elevation shown?

Answer No. 1: The Apparatus Bay elevation is 99'-0". TOF is shown as topicals for the senior center and fire station respectively. Once in construction more grading information can be given for the foundation however what is shown on the plans is more than adequate for pricing.

Question No. 2: The typical exterior wall partition detail A1/G004 indicates the sheathing on the exterior is attached to the metal building girts. The detail also indicates that the interior gypsum wallboard is attached to the girts. Typically, the metal buildings girts are spaced approx. 7'-10" o.c. Horizontally. Vertical supports are only at the columns. I do not see a furr out detail such as 2x4 or hat channel to support the sheathing and the drywall. Please clarify how the sheathing and drywall is attached to the metal building.

Answer No. 2: See Revised Sheet G004; Wall Types EX-1, EX-1A, EX-1B and EX-2 shall be amended as follows: Two lines of furring channels shall be fastened to align with the inside and outside face of the PEMB girts inside the exterior wall cavity. Both lines of furring channels shall be spaced 16" O.C. The furring channels shall be 25 Ga. and 1-1/2 Depth. The outside line of furring channels shall extend continuous where exterior sheathing is present. The inside line of furring channels shall extend 6" above line of ceiling finish and shall be terminated with a continuous 25 Ga. 8" channel

Question No. 3: The light pole detail on E501 does not indicate the depth of the concrete. I find a diameter of 2 feet on a survey sheet but not on the structural sheets please clarify the diameter and depth of the light pole bases.

Answer No. 3: This foundation is described on Sheet A003, the foundations are 2'-0" diameter and 3'-0" deep. For reinforcement and other requirements of light poles bases see detail C1/A003.

Question No. 4: Is the photovoltaic system to be provided by the general contractor? If so, was there a specific company consulted during design phase? and may we have the contract information.

Answer No. 4: The County has the solar company under our umbrella and costs for it are paid through the County's Sustainability Department. The winning Contractor will coordinate installation with the County's solar company. Therefore, this is not included in the bid.

Question No. 5: Do you know if there is a plumbing schedule?

Answer No. 5: The Plumbing schedule is contained on sheet P-701 which is included in this addendum.

Please add this Addendum No. 2 to the original proposal documents and refer to proposal documents, hereto as such. This and all subsequent addenda will become part of any resulting contract documents and have effects as if original issued. All other unaffected sections will have their original interpretation and remain in full force and effect. Responders are reminded that any questions or need for clarification must be addressed to Amanda Patterson-Sanchez, Procurement Specialist Senior at apatterson-sanchez@santafecountynm.gov.

SECTION 01 5000**TEMPORARY FACILITIES AND CONTROLS****PART 1 GENERAL****1.01 SECTION INCLUDES**

- A. Temporary telecommunications services.
- B. Temporary sanitary facilities.
- C. Temporary Controls: Barriers, enclosures, and fencing.
- D. Security requirements.
- E. Vehicular access and parking.
- F. Waste removal facilities and services.
- G. Project identification sign.

1.02 TELECOMMUNICATIONS SERVICES

- A. Provide, maintain, and pay for telecommunications services to field office at time of project mobilization.

1.03 TEMPORARY SANITARY FACILITIES

- A. Provide and maintain required facilities and enclosures. Provide at time of project mobilization.
- B. Maintain daily in clean and sanitary condition.

1.04 BARRIERS

- A. Provide barriers to prevent pto prevent access to areas that could be hazardous to workers or the public, to allow for owner's use of site and to protect existing facilities and adjacent properties from damage from construction operations and demolition.
- B. Protect non-owned vehicular traffic, stored materials, site, and structures from damage.

1.05 FENCING

- A. The Site is not required to be fenced however the contractor is responsible to secure materials and equipment on site for the duration of construction.

1.06 SECURITY - SEE SECTION 01 3553

- A. Provide security and facilities to protect Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, or theft.
- B. Coordinate with Owner's security program.

1.07 VEHICULAR ACCESS AND PARKING

- A. Coordinate access and haul routes with governing authorities and Owner.
- B. Provide and maintain access to fire hydrants, free of obstructions.
- C. Provide means of removing mud from vehicle wheels before entering streets.
- D. Designated existing on-site roads may be used for construction traffic.
- E. Provide temporary parking areas to accommodate construction personnel. When site space is not adequate, provide additional off-site parking.

1.08 WASTE REMOVAL

- A. Provide waste removal facilities and services as required to maintain the site in clean and orderly condition.
- B. Provide containers with lids. Remove trash from site periodically.
- C. If materials to be recycled or re-used on the project must be stored on-site, provide suitable non-combustible containers; locate containers holding flammable material outside the structure unless otherwise approved by the authorities having jurisdiction.
- D. Open free-fall chutes are not permitted. Terminate closed chutes into appropriate containers with lids.

1.10 PROJECT IDENTIFICATION

- A. Provide project identification sign of design, construction, and location approved by Owner.
- B. No other signs are allowed without Owner permission except those required by law.

1.11 FIELD OFFICES

- A. Office: Weathertight, with lighting, electrical outlets, heating, cooling equipment, and equipped with sturdy furniture, drawing rack, and drawing display table.
- B. Provide space for Project meetings, with table and chairs to accommodate 10 persons.

1.12 REMOVAL OF UTILITIES, FACILITIES, AND CONTROLS

- A. Remove temporary utilities, equipment, facilities, materials, prior to Date of Substantial Completion inspection.
- B. Remove underground installations to a minimum depth of 2 feet. Grade site as indicated.
- C. Clean and repair damage caused by installation or use of temporary work.
- D. Restore existing facilities used during construction to original condition.

PART 2 PRODUCTS - NOT USED PART 3**EXECUTION - NOT USED****END OF SECTION 01 5000**

EXPANSION TANK SCHEDULE						
TAG NO.	LOCATION	SERVICE	MAX SYSTEM PRESSURE (PSI)	TANK VOLUME (GALS.)	ACCEPTANCE VOLUME (GALS.)	MANUFACTURER AND REMARKS
ET-1	MECHANICAL SC12	DOMESTIC HOT WATER	100	5.2	1.8	AMTROL MODEL ST-447-C. SECURE FROM STRUCTURE AS REQUIRED, DO NOT SUPPORT FROM PIPING. SET TANK PRECHARGE EQUAL TO INCOMING STATIC WATER PRESSURE.

MIXING VALVE SCHEDULE							
TAG NO.	LOCATION	SERVICE	TYPE	DESIGN RANGE (GPM)	MAX PSI DROP @ PEAK FLOW	PEAK FLOW (GPM)	MANUFACTURER AND REMARKS
MV-1	MECH SC12	DHW	DIGITAL	0.25 - 17	5	17	LEONARD NUCLEUS MODEL PNW-100-LF

SOLIDS / LINT INTERCEPTOR SCHEDULE											
TAG NO.	TYPE	LOCATION	FLOW RATE (MAX)	SOLIDS CAPACITY	LIQUID CAPACITY	SIZE (INCHES)			CONNECTION SIZE		MANUFACTURER AND REMARKS
						W	L	D	INLET	OUTLET	
SOI-1	SAND/OIL	APPARATUS BAY	25 GPM	6 GAL.	15 GAL.	21	27	15	6"	6"	STRIEM MODEL OS-25. PROVIDE WITH HIGHWAY RATED COVER AND RISER TO GRADE STRIEM MODEL AA-M. PROVIDE WITH STANDARD COVER AND RISER TO GRADE
LI-1	LINT/SOLIDS	APPARATUS BAY	50 GPM	6 GAL.	38 GAL.	25	33	25	4"	4"	

GREASE INTERCEPTOR SCHEDULE									
TAG NO.	LOCATION	MAX FLOW RATE (GPM)	GREASE CAPACITY IN POUNDS	DEVICE SIZE			CONNECTION SIZE		MANUFACTURER AND REMARKS
				LENGTH	WIDTH	DEPTH	INLET	OUTLET	
GI-1	KITCHEN EXTERIOR	50	439.5	37"	32"	28.5"	3"	3"	SCHIER MODEL GB-50 WITH GAS-TIGHT CAST IRON COVER AND RISERS TO GRADE.

DOMESTIC WATER CALCULATIONS			
STARTING AVAILABLE PRESSURE:	60 psi	(ASSUMED)	
MINIMUM PRESSURE REQUIRED:	30 psi		
STARTING AVAILABLE PRESSURE:	30 psi		
LOSSES			
WATER METER	4 psi		
BACKFLOW PREVENTER	8 psi		
MISCELLANEOUS	0 psi		
STATIC HEAD LOSS	6 psi		
REMAINING FOR PIPE LOSSES:	12 psi		
	121 feet	DEVELOPED PIPE LENGTH, LONGEST RUN	
	151 feet	EQUIVALENT PIPE LENGTH (DL X 1.25)	
<u>PSI X 100'</u>	=	7.9 PSI PER 100' MAX HEAD LOSS PERMITTED	
EPL			
NOTE: VELOCITIES IN PIPING SYSTEM SHALL NOT EXCEED 6 FPS			

FIXTURE UNIT DEMAND CALCULATION							
CODE: 2015 NEW MEXICO STATE PLUMBING CODE		OCCUPANCY	FIXTURE QUANTITY	DRAINAGE FIXTURE UNITS		COLD WATER FIXTURE UNITS	
PLUMBING FIXTURE				DFU EA.	DFU TOTAL	SFU EA.	SFU TOTAL
DISHWASHER		PRIVATE	1	2.0	2.0	1.5	1.5
DRINKING FOUNTAIN / EWC		OFFICES ETC.	1	0.5	0.5	0.5	0.5
HOSE BIBB		N/A	1	2.0	2.0	2.5	2.5
HOSE BIBB - EACH ADDITIONAL		N/A	6	2.0	12.0	1.0	6.0
KITCHEN SINK		PRIVATE	1	2.0	2.0	1.4	1.4
KITCHEN SINK		HOTEL, REST.	3	2.0	6.0	4.0	12.0
KITCHEN SINK		PRIVATE	1	2.0	2.0	4.0	4.0
HAND SINK		PRIVATE	2	2.0	4.0	2.0	4.0
LAVATORY		PRIVATE	2	1.0	2.0	1.0	2.0
LAVATORY		PUBLIC	4	1.0	4.0	1.0	4.0
SERVICE SINK		PRIVATE	1	2.0	2.0	1.5	1.5
SERVICE SINK		PUBLIC	1	2.0	2.0	3.0	3.0
SHOWER HEAD		N/A	1	2.0	2.0	2.0	2.0
URINAL 1.0 GPF		PUBLIC	1	2.0	2.0	4.0	4.0
WATER CLOSET FLUSH TANK 1.6 GPF		PRIVATE	2	3.0	6.0	2.5	5.0
WATER CLOSET FLUSH TANK 1.6 GPF		PUBLIC	5	4.0	20.0	2.5	12.5
FLOOR DRAIN 3-INCH		OFFICES ETC.	1	2.0	2.0		
FLOOR DRAIN EMERGENCY		OFFICES ETC.	5	0.0	0.0		
FLOOR SINK 3-INCH		OFFICES ETC.	4	6.0	24.0		
FIXTURE UNIT DEMAND TOTALS:				DFU TOTAL:	96.5	SFU TOTAL:	65.9
DRAINAGE FIXTURE UNIT PEAK LOAD:		96.5			GPM BARE DEMAND:		57
1 BUILDING DRAIN AT:		4"		MECHANICAL / MISC DEMAND, GPM:			0
BUILDING DRAIN SLOPE:		1%			PEAK DEMAND, GPM:		57
SERVICE SIZE & CHARACTERISTICS:				2" SERVICE, 2.5 PSI/100' @ 6" FPS			



SHOCK ARRESTOR SCHEDULE			
NO.	FIX UNIT RATING	PIPE SIZE (INCHES)	PDI SYMBOL
SA-A	1-11	1/2"	A
SA-B	12-32	3/4"	B
SA-C	33-60	1"	C
SA-D	61-113	1 1/4"	D
SA-E	114-154	1 1/2"	E
SA-F	155-330	2"	F

TAG NO.	DESCRIPTION		COLD WATER	HOT WATER	WASTE	SANITARY	VENT	REMARKS
P1	WATER CLOSET, FLOOR MOUNTED		1"	-	-	4"	2"	WATER CLOSET: AMERICAN STANDARD "CADET" #2462.016 FLOOR SET WHITE VITREOUS CHINA WAER CLOSET, 15" RIM HEIGHT, SIPHON JET, 1.6 GALLONS PER FLUSH WATER CLOSET. PRESSURE ASSIST, ELONGATED BOWL WITH CLOSE-COUPLED TANK AND 1/2" x 1/2" ANGLE STOP WITH FLEXIBLE TUBE RISER. SEAT: CHURCH MODEL 295CT WHITE OPEN FRONT SEAT WITHOUT COVER.
P1a	WATER CLOSET, FLOOR MOUNTED	ADA	1"	-	-	4"	2"	WATER CLOSET: AMERICAN STANDARD "CADET RIGHT HEIGHT" #2467.016 FLOOR SET WHITE VITREOUS CHINA WATER CLOSET, 16-1/2" RIM HEIGHT, SIPHON JET, 1.6 GALLONS PER FLUSH WATER CLOSET. PRESSURE ASSIST, ELONGATED BOWL WITH CLOSE-COUPLED TANK, AND 1/2" x 1/2" ANGLE STOP WITH FLEXIBLE TUBE RISER. SEAT: CHURCH MODEL 295CT WHITE OPEN FRONT SEAT WITHOUT COVER.
P2	URINAL, WALL HUNG	ADA	3/4"	-	-	2"	2"	URINAL: AMERICAN STANDARD "PINTBROOK" MODEL 6002.503, 0.125 GPF, WALL HUNG URINAL, ELONGATED RIM, VITREOUS CHINA, 3/4" TOP SPUD. WALL HANGARS INCLUDED. FLUSH VALVE: SLOAN ROYAL 186-0.125-DBP, POLISHED CHROME FINISH. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT.
P3	LAVATORY, WALL HUNG	ADA	1/2"	1/2"	2"	-	2"	LAVATORY: AMERICAN STANDARO 9141.011 WHEELCHAIR LAVATORY, 27"x20"x6" DEEP, WHITE VITREOUS CHINA, WITH FRONT OVERFLOW, FAUCET HOLES ON 4" CENTERS. FAUCET: CHICAGO FAUCETS 895-317GN8AE67VAB 4" FIXED CENTERS FAUCET WITH 4" WRIST BLADE HANDLES, 0.5 GPM VANDAL-RESISTANT NON-AERATING LAMINAR FLOW OUTLET, 7723.018 CHROME PLATED OFFSET GRID DRAIN WITH OVERFLOW, AND PROVIDE 1/2" x 3/8" ANGLE STOPS, WITH FLEXIBLE TUBE RISERS. INSULATION: LAVATORY P-TRAP AND ANGLE VALVE ASSEMBLIES SHALL BE COVERED WITH MOLDED, ANTI-MICROBIAL TRUEBRO, INC. LAV GUARD UNDERSINK PROTECTIVE PIPE COVER, IAPMO LISTED (COLOR SELECTED BY ARCHITECT).
P4	SINK (BREAKROOM)		1/2"	1/2"	2"	-	2"	BASIN: JUST SL-ADA-2219-A-GR, 22"x19"x6" DEEP, COUNTER MOUNTED, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF RIMMING, UNDERSIDE UNDERCOATED, THREE HOLE PUNCHED AND J-35 CRUMB CUP DRAIN WITH 1-1/2" TAILPIECE. COMPLETE WITH 1-1/2" TAILPIECE. FAUCET: CHICAGO FAUCETS 201-AGN8FCABCP 8" GOOSENECK FAUCET WITH 1.5 GPM LAMINAR FLOW OUTLET WITH CHROME PLATED LEVER HANDLES. SUPPLIES: 1/2" x 3/8" BRASS STEM LOOSE KEY ANGLE STOPS WITH 3/8"O.D. FLEXIBLE RISERS, ADJUSTABLE CAST BRASS BODY.
P4a	SINK (APPARATUS BAY)		1/2"	1/2"	2"	-	2"	AMERICAN STANDARD "AKRON" #7695.008 ENAMELED CAST IRON SERVICE SINK WITH DRILLED BACK, 2 HOLES ON 8" CENTERS, FITTED WITH #8341.076 EXPOSED YODE WALL MOUNT UTILITY FAUCET WITH VACUUM BREAKER AND STOPS, AND #7798.030 CAST IRON 3" TRAP STANDARD.
P4b	SINK (ARTS AND CRAFTS)		1/2"	1/2"	2"	-	2"	BASIN: JUST SL-ADA-2219-A-GR, 22"x19"x6" DEEP, COUNTER MOUNTED, SINGLE COMPARTMENT, 18 GAUGE TYPE 304 STAINLESS STEEL, SELF RIMMING, UNDERSIDE UNDERCOATED, THREE HOLE PUNCHED AND J-35 CRUMB CUP DRAIN WITH 1-1/2" TAILPIECE. SOLIDS INTERCEPTOR: STRIEM SIDEKICK, SIDE ACCESS, PVC HOUSING, 2" INLET AND OUTLET, TOP INLET. FAUCET: CHICAGO FAUCETS 201-AGN8FCABCP 8" GOOSENECK FAUCET WITH 1.5 GPM LAMINAR FLOW OUTLET WITH CHROME PLATED LEVER HANDLES. SUPPLIES: 1/2" x 3/8" BRASS STEM LOOSE KEY ANGLE STOPS WITH 3/8"O.D. FLEXIBLE RISERS, ADJUSTABLE CAST BRASS BODY.
P5	MOP BASIN		3/4"	3/4"	3"	-	2"	FIAT MODEL MSB-2424, 24" x 24" x 10", FLOOR MOUNTED MOLDED STONE MOP BASIN WITH INTEGRAL STAINLESS STEEL STRAINER EXTENSION. SUPPLY FITTING: CHICAGO FAUCETS MODEL 897-RCF ROUGH CHROME PLATED SUPPLY FITTING WITH INTEGRAL STOPS, VACUUM BREAKER, 3/4" HOSE THREAD SPOUT AND WALL BRACE. MOUNT FITTING AT 24" ABOVE FINISHED FLOOR. HOSE: FIAT 832-AA, 30" HEAVY DUTY FLEXIBLE 3/4" RUBBER HOSE AND WALL BRACKET. SEALANT: FIAT 833-AA SILICONE SEALANT INSTALLED IN ACCORDANCE WITH MANUFACTURER. MOP HANGER: FIAT 889-CC 18 GAUGE TYPE 302 STAINLESS STEEL MOP HANGER, SEE ARCHITECTURAL DRAWINGS FOR LOCATION.
P6	ELECTRIC WATER COOLER WITH BOTTLE FILLER	ADA	1/2"	-	2"	-	2"	HAWS MODEL 12125 WALL MOUNTED HI-LO ADA WATER COOLER WITH BOTTLE FILLER, STAINLESS STEEL, WITH HERMETICALLY SEALED REGRIGERATION SYSTEM, AUTOMATIC POWER-DOWN FEATURE, FRONT PUSH BARS, 0.45 GPM FLEXIBLE ANTIMICROBIAL MOUTH GUARDS, ELECTRONIC BUBBLER DEACTIVATION FEATURE, AND AUTOMATIC BOTTLE FILLER AUTO PURGE.
P7	SHOWER	ADA	1/2"	1/2"	2"	-	2"	AQUA BATH MODEL C4136BF-FUS 3/4" ONE-PIECE ACRYLIC TRANSFER SHOWER STALL WITH DOME TOP, INTERIOR DIMENSIONS OF 36" X 36", SET IN A GROUT BED TO ACHIEVE A 1/2" THRESHOLD. PROVIDE WITH REMOVEABLE FOLD-UP SEAT, GRAB BARS, SHOWER CURTAIN, WATER RETENTION STRIP, AND CHROME PLATED BRASS DRAIN. SHOWER VALVE: LEONARDO VALVE COMPANY SHOWER/BATH COMBINATION 4505, INCLUDING 4500 VALVE, D-2L INLINE DIVERTER, H-05 SHOWER HEAD, ARM AND FLANGE, 501P(G) HAND HELD SHOWER, 24" GLIDE BAR, DOUBLE CHECK VALVE BACKFLOW PREVENTER, AND SUPPLY ELBOW.

PLUMBING SPECIALTIES SCHEDULE					
TAG NO.	DESCRIPTION	LOCATION	BODY	GRATE	MANUFACTURER AND REMARKS
FD-1	FLOOR DRAIN	FINISHED AREAS	CAST IRON	NICKEL BRONZE	JAY R. SMITH FIG. 2010C-NB
FD-2	FLOOR DRAIN	APPARATUS BAYS	CAST IRON	CAST IRON	JAY R. SMITH FIG. 2141Y
FS-1	FLOOR SINK	KITCHEN	CAST IRON	NICKEL BRONZE	JAY R. SMITH FIG. 3060Y-22 WITH DOME BOTTOM STRAINER, NICKEL BRONZE GRATE AND 6" DIAMETER SAFEWASTE FUNNEL
FS-2	FLOOR SINK	APPARATUS BAYS	CAST IRON	NICKEL BRONZE	JAY R. SMITH FIG. 3100Y WITH DOME BOTTOM STRAINER, NICKEL BRONZE RIM AND 3/4 GRATE
FCO	FLOOR CLEANOUT	FINISHED AREAS	CAST IRON	N/A	JAY R. SMITH FIG 4121S CAST IRON CLEANOUT WITH ROUND HEAVY DUTY SCORIATED NICKEL BRONZE TOP, ADJUSTABLE TO FLOOR FINISH, VANDAL RESISTANT SCREWS, BRONZE PLUG COMPLETE WITH MEMBRANE FLANGE.
WH-1	WALL HYDRANT (EXTERIOR)	SEE PLANS	BRONZE	STAINLESS STEEL	ZURN Z1310 NON-FREEZE WALL HYDRANT, LOOSE KEY OPERATION
HB-1	HOSE BIBB (INTERIOR)	SEE PLANS	BRASS	N/A	WOODFORD MODEL 24 P-3/4, 3/4" INLET, STANDARD CHROME FINISH, METAL WHEEL HANDLE, VACUUM BREAKER

ELECTRIC WATER HEATER SCHEDULE								
TAG NO.	LOCATION	HEATING ELEMENTS	STORAGE CAPACITY (GAL)	RECOVERY IN GPH @ 80°F RISE	ELECTRICAL			REFERENCE MANUFACTURER
					PHASE	KW	VOLT	
EW-H-1	MECHANICAL SC12	6	120	124	3	24	208	RHEEM MODEL ES-120 WITH SURFACE MOUNTED T'STAT
NOTE: ALL WATER HEATERS SHALL COMPLY FULLY WITH IECC TABLE C404.2, MINIMUM PERFORMANCE OF WATER-HEATING EQUIPMENT.								

PLUMBING PUMPS SCHEDULE									
PUMP NO.	LOCATION	SERVICE	GPM	HEAD (FT.)	ELECTRICAL			NOM PWR (W)	REFERENCE MANUFACTURER AND REMARKS
					VOLTS	PHASE	CYCLE		
CP-1	MECHANICAL SC12	BUILDING DHWR	5	14	115	1	60	117	ARMSTRONG ASTRO 2 MODEL 250SS, STAINLESS STEEL CONSTRUCTION. SUPPORT PUMP FROM STRUCTURE AS REQUIRED, PIPING SHALL NOT PROVIDE SUPPORT.
CP-1	MECHANICAL SC12	HIGH TEMP DHWR	3	13	115	1	60	75	ARMSTRONG ASTRO 2 MODEL 250SS, STAINLESS STEEL CONSTRUCTION. SUPPORT PUMP FROM STRUCTURE AS REQUIRED, PIPING SHALL NOT PROVIDE SUPPORT.

<h1 style="margin: 0;">Lloyd & Associates</h1> <h2 style="margin: 0;">ARCHITECTS</h2> <p style="margin: 0;">100 N Guadalupe St., Suite 201 Santa Fe, NM 87501 Telephone: 505-988-9789 Fax: 505-986-1165 Web address: lloyd-architects.com</p>					
 <p style="font-size: small;">4600 C Montgomery Blvd. NE Albuquerque, NM 87109 505.853.4111 www.bpcba.com</p>					
					
<h3 style="margin: 0;">CERILLOS SENIOR CENTER AND TURQUOISE TRAIL # 3 FIRE STATION</h3> <p style="margin: 0;">LOT 3, SECTION 17, T.14N., R.8E., N.M.P.M. SANTA FE COUNTY, NEW MEXICO</p>					
Current Status:					
100% CONST. DOCS					
R E V I S I O N S					
Drawn by:			GMC		
Checked by:			—		
Date:			09-27-21		
Sheet Title: <h2 style="text-align: center; margin: 0;">PLUMBING SCHEDULES</h2>					
Job Number:					
Sheet No.					
P701					

Date: Oct 21, 2021 -- 12:03pm User:MTortiz Drawing File: H:\ABC\8357\CAD\AutoCAD\8357-M-701.dwg -- Santa Fe County, Cerrillos Senior Center\Sheets\Mechanical\8357-M-701.dwg -- 11:44am Layout Name: M701 MECHANICAL SCHEDULES

NOTE:ALL EQUIPMENT SELECTED AT 7,000 FEET ELEVATION

PERMIT & BID SET
07-25-2022

ROOFTOP UNIT SCHEDULE																																
GENERAL UNIT DATA							SUPPLY FAN DATA					GAS HEATING DATA					DX COOLING DATA							ELECTRICAL DATA					OPERATING WEIGHT	REFER TO SPEC SECTION		
SYMBOL NO.	MANUFACTURER	MODEL NO.	SERVICE	TYPE	NOMINAL CAPACITY (TONS)	FILTER TYPE	AIRFLOW (CFM)	TYPE	HP	BHP	ESP (IN. W.C.)	EAT (°F)	LAT (°F)	INPUT (MBH)	OUTPUT (MBH)	CAPACITY CONTROL	AMBIENT TEMP. (°F)	EAT DB (°F)	WB (°F)	LAT DB (°F)	WB (°F)	TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	EFFICIENCY @ ARI (%)	VOLT	PHASE	HZ	MCA	MOCP	(LBS)	(XXXXXX)	
RTU-1	TRANE	YHC047E3RMA**06D			4	MERV 13	1325	CENTRIFUGAL	1	0.21	0.50	55	100	96	57.6	MICRO PROCESSOR	95	80	61	49.37	49.01	41.98	35.62			208-230	3	60	30	40	976	
RTU-2	TRANE	YHC102F3RMA**06D			8.5	MERV 13	3200	BC PLENUM	2.75	0.52	0.5	55	90	200	118	MICRO PROCESSOR	95	80	61	51.68	50.71	86.66	77.59			208-230	3	60	42	50	1300	

MAKE UP AIR UNIT SCHEDULE																								
GENERAL UNIT DATA					FAN DATA					GAS HEATING DATA					EVAPORATIVE COOLING DATA				ELECTRICAL DATA				OPERATING WEIGHT (LBS)	NOTES
SYMBOL NO.	MANUFACTURER	MODEL NO.	AREA SERVED	FILTER	AIRFLOW (CFM)	RPM	ESP (IN W.G.)	BHP	HP	TYPE	EAT (°F)	LAT (°F)	INPUT (MBH)	OUTPUT (MBH)	EAT		LAT		VOLTS	PHASE	HZ	MCA		
															DB (°F)	WB (°F)	DB (°F)	WB (°F)						
MAU-1	GREENHECK	IGX-P112-H12-MF-G	KITCHEN	MERV 8	1,600	1764	0.5	0.33	3/4	INDIRECT	4	94	149.1	119.3	90	61	63	61	208-230	3	60	7.9	1,410	
MAU-2	GREENHECK	IGX-P112-H12-MF-G	APPARATUS	MERV 8	1,600	1764	0.5	0.33	3/4	INDIRECT	0	95	149.1	119.3	90	61	63	61	208-230	3	60	7.9	1,410	

NOTE: MAU-2 SHALL BE PROVIDED WITH A MICROPROCESSOR CONTROLLER WITH DISPLAY AND ROOM CONTROL.

MAKE UP AIR UNIT SCHEDULE CONT.								
SYMBOL NO.	SOUND POWER BY OCTAVE BAND (DB)							
	64 HZ	125 HZ	250 HZ	500HZ	1K HZ	2K HZ	4K HZ	8K HZ
MAU-1	Inlet	89	81	76	72	71	69	56
MAU-2	Inlet	89	81	76	72	71	69	56

FAN SCHEDULE																										
GENERAL UNIT DATA												ELECTRICAL DATA				INLET SOUND POWER BY OCTAVE BAND (DB)								NOTES		
SYMBOL NO.	MANUFACTURER	MODEL NO.	SERVICE / LOCATION	FAN TYPE	AIRFLOW (CFM)	ESP (IN. W.G.)	FAN RPM	MOTOR BHP	MOTOR HP	OPERATING WEIGHT (LBS)	DAMPER TYPE	VOLT	PHASE	HZ	FLA	63 HZ	125 HZ	250 HZ	500 HZ	1K HZ	2K HZ	4K HZ	8K HZ			
KEF-1	GREENHECK	USGF-160XP-15	KITCHEN	DIRECT	2000	1.25	2449	1.16	1 1/2	219		208	3	60	6.5	79	79	81	83	79	77	72	67			
EF-1	GREENHECK	CUE-095-VG	DISHWASHER	DIRECT	600	0.5	1642	0.12	1/6	36		115	1	60	2.2	74	75	74	67	57	59	54	34			
EF-2	GREENHECK	G-143-VG	APPARATUS	DIRECT	1800	0.5	1245	0.33	3/4	58		115	1	60	8.8	78	76	76	70	63	62	57	51			
EF-3	GREENHECK	G-090-VG	RESTROOMS	DIRECT	650	0.5	1676	0.12	1/6	32		115	1	60	2.2	81	80	74	67	62	59	51	44			

ENERGY RECOVERY VENTILATOR SCHEDULE														
SYMBOL NO.	MANUFACTURER & MODEL NO.	AREA SERVED	SUPPLY FAN		EXHAUST FAN		ENERGY HX PERFORMANCE		ELECTRICAL				WEIGHT (LBS)	NOTES
			AIRFLOW (CFM)	ESP (IN. W.G.)	AIRFLOW (CFM)	ESP (IN. W.G.)	SUMMER	WINTER	VOLTS	PHASE	HZ	FLA		
							EFF. %	EFF. %						
ERV-1	RENEWAIR LV100	EX. ADMIN	300	0.5	300	0.5	54	60	120.0	1.0	60.0	3.0	25.0	PROVIDE BACKDRAFT DAMPER, FLEX CONTROLLER AND LOUVERED WALL VENTS.

VRF INDOOR UNIT SCHEDULE														
GENERAL UNIT DATA					INDOOR UNIT					SEER	RATED COOLING CAPACITY (BTUH)	HEATING RATED CAPACITY (BTUH)	WEIGHT (LBS)	NOTES
SYMBOL NO.	MANUFACTURER	MODEL NO.	LOCATION	AREA SERVED	SUPPLY AIRFLOW (CFM)	MOTOR DATA								
						VOLT	PHASE	HZ	MCA					
FC-1	DAIKIN	MSZ-GL12NA	WALL MOUNTED	SC10 IT/ELEC	400	208-230	1	60	1	23.1	12,000	95	12,000	22
FC-2	DAIKIN	MSZ-GL12NA	WALL MOUNTED	FS06 IT	400	208-230	1	60	1	23.1	12,000	95	12,000	22
AC-1	DAIKIN	PLFY-P18NFMU-E	CEILING CASSETTE	MEETING FS03	460	208-230	1	60	0.5		18,000	95	20,000	35
AC-2	DAIKIN	PLFY-P12NFMU-E	CEILING CASSETTE	OFFICE FS04	335	208-230	1	60	0.29		12,000	95	13,500	35
AC-3	DAIKIN	PLFY-P12NFMU-E	CEILING CASSETTE	RESTROOM FS07	335	208-230	1	60	0.29		12,000	95	13,500	35
AC-4	DAIKIN	PKFY-P08NLMU-E	WALL MOUNTED	STORAGE FS08	235	208-230	1	60	0.24		8,000	95	9,000	30

VRF OUTDOOR UNITS SCHEDULE																	
GENERAL UNIT DATA							ELECTRICAL DATA					COMPRESSORS				WEIGHT (LBS)	NOTES
SYMBOL NO.	MANUFACTURER	MODEL NO.	LOCATION	AREA SERVED	COOLING RATED CAPACITY (BTU/H)	HEATING RATED CAPACITY (BTU/H)	VOLT	PHASE	HZ	MCA	MOCP	FLA	COMPRESSOR TYPE	REFR. TYPE	LIQUID LINE		
CU-1	MITSUBISHI	MUZ-GL12NA	GRADE	SC10 IT/ELEC	12,000	12,000	208-230	1	60	9	15		DC-INVERTER	R-410A	1/4	3/8	81
CU-2	MITSUBISHI	MUZ-GL12NA	GRADE	FS06 IT	12,000	12,000	208-230	1	60	9	15		DC-INVERTER	R-410A	1/4	3/8	81
CU-3	MITSUBISHI	PUMY-P60NKMU3	GRADE	FIRE	60,000	66,000	208-230	1	60	36	45		DC-INVERTER	R-410A	3/8	3/4	350

RADIANT HEAT HEATER SCHEDULE											
GENERAL UNIT DATA				HEATING DATA		ELECTRICAL DATA				NOTES	
SYMBOL NO.	MANUFACTURER	MODEL NO.	LOCATION	NOMINAL INPUT @ SEA LEVEL (MBH)		VOLT	PHASE	HZ	FLA		
RH-1	SPACE RAY	CB30-15-P5	APARATUS BAY	30		120	1	60	2.6	PROVIDE FACTORY THERMOSTAT AND WIRING FOR A COMPLETE AND FUNCTIONAL INSTALLATION	
RH-2	SPACE RAY	CB30-15-P5	APARATUS BAY	30		120	1	60	2.6	PROVIDE FACTORY THERMOSTAT AND WIRING FOR A COMPLETE AND FUNCTIONAL INSTALLATION	

KITCHEN HOOD SCHEDULE																		
HOOD INFORMATION																		
HOOD NO.	MARK	MODEL NO.	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	EXHAUST					SUPPLY		TOTAL WEIGHT LBS.				
			LENGTH	WIDTH	HEIGHT		TOTAL CFM	COLLAR(S)				MUA CFM	AC CFM					
								WIDTH	LENGTH	CFM	S.P							
1	KH-1	GGEW	120	54	24	430 SS	1,970	9	19	1,970	0.848	1576	0					
SUPPLY PLENUM INFORMATION																		
HOOD NO.	MARK	POS.	TYPE	SIZE (IN.)			INSULATED	DAMPER(S)	TOTAL CFM	COLLARS								
				LENGTH	WIDTH	HEIGHT				TYPE	MOUNTING	QTY	WIDTH	LENGTH	DIA.	CFM	S.P	VEL.
1	KH-1	FRONT	ASP	120	14	10	NO	NO	1576	MUA	FACTORY	2	10	22		788	0.11	516
HOOD OPTIONS																		
<div><div><div>SEE NOTES FOR EXHAUST FAN DAMPER COMPLETE HOOD FIRE PROTECTION SYSTEM</div><div>FACTORY MOUNTED EXHAUST COLLAR(S)</div><div>PERFORMANCE ENHANCING LIP (PEL) TECHNOLOGY</div><div>STAINLESS STEEL CONSTRUCTION FOR TOP-ROCK STRENGTH</div></div><div><div></div><div></div><div></div><div></div></div></div>																		

VEHICLE EXHAUST SYSTEM IS REQUIRED IN FIRESTATION; SYSTEM SHALL BE DESIGNED, PROVIDED AND INSTALLED BY OWNER

DISHWASHER HOOD SCHEDULE														
HOOD INFORMATION														
HOOD NO.	MARK	MODEL NO.	HOOD DIMENSIONS (IN.)			HOOD CONSTR.	EXHAUST					SUPPLY		TOTAL WEIGHT LBS.
			LENGTH	WIDTH	HEIGHT		TOTAL CFM	COLLAR(S)				MUA CFM	AC CFM	
								WIDTH	LENGTH	CFM	S.P			
1	DH-1	GD2	42	42	24	430 SS	525	11	13	525	0.034	N/A	N/A	
HOOD FEATURES														
FACTORY MOUNTED EXHAUST COLLAR(S)														
STAINLESS STEEL FINISH FOR HIGHER CORROSION RESISTANCE														
0.5 INCH NPT STAINLESS STEEL DRAIN FITTING														