

CITY OF ALBUQUERQU PLANNING

June 07, 2019 T. DURAN D. GRAHAM 18074_P50

P-501

QTY.	FIXTURE	# of Compart.	Compart.	Compart.	Compart.	Cubic Content Inches	Capacity in Gallons	Actual Drainag Load
1	3-comp sink	3	16	20	12	11520	49.87	37.4
			0	0	0	0	0	
			0	0	0	0	0	
						0	0	
						0	0	
						0	0	
						0	0	
						0	0	
						0	0	
						0	0	
						0	0	
						0	0	
						0	0	
						0	0	
						0	0	
						0	0	
2	Flr. Drain/Sinks	1					37.5 Total Actual Drainage Load	112.4
	1 Minute Drain Period	112.40						
	2 Minute Drain Period	56.20						

	SYN	IBOL LEGEND					
ABBR.	SYMBOL	DESCRIPTION					
	$\langle \rangle$	EQUIPMENT DESIGNATION					
		KEYED NOTES					
T. (D							
TYP		TYPICAL					
FCO		FLOOR CLEANOUT					
wco	<u> </u>	WALL CLEANOUT					
VTR	0	VENT THRU ROOF					
	+ 5	RISER DOWN					
	—ю	RISER UP					
		DROP					
	─ ─	RISER UP					
НВ		HOSE BIBB / WALL HYDRANT					
CW		COLD WATER LINE					
HW		HOT WATER LINE					
HWR		CIRCULATING HOT WATER					
V		VENT PIPING SANITARY SEWER OR WASTE LINE GREASE SEWER OR WASTE LINE					
S	s						
GI	—— GI ——						
G	— G —	GAS PIPING					
D	— D —	CONDENSATE DRAIN LINE					
FD		FLOOR DRAIN					
FS	×	FLOOR SINK					
CAP	<u> </u>	CAP ON END OF PIPE					
	──	FLANGED CONNECTION					
	*	VALVE IN RISER					
		THERMOMETER					
	<u> </u>	PRESSURE GAUGE					
	<u> </u>	FLOW SWITCH					
	 -⊘	PRESSURE GAUGE W/ GAUGE COCK					
	─ ──	GATE VALVE					
	─ ──	GLOBE VALVE					
	─	CHECK VALVE					
	─ ──∀├───	PLUG VALVE					
	─ ₩─	CONTROL VALVE (THREE-WAY)					
	——————————————————————————————————————	CONTROL VALVE (TWO-WAY)					
		RELIEF VALVE					
	<u> </u>	PRESSURE REDUCING VALVE					
	—-б—	BALL VALVE					
		BALANCING VALVE (BV)					
		STRAINER					
	<u> </u>	UNION					

		PLUMBING FIXTURE/EQUIPMENT SCHEDULE
SY	/MBOL	DESCRIPTION
	WCO	WALL CLEANOUT: J.R. SMITH 4530-Y CAST IRON C.O. TEE WITH BRASS PLUG AND ROUND STAINLESS STEEL ACCESS COVER WITH VANDAL PROOF SCREW.
	FCO	FLOOR CLEANOUT: J.R. SMITH 4023, CAST IRON C.O., WITH ROUND SCORIATED TOP
	TMV	THERMOSTATIC MIXING VALVE: LEONARD MODEL 270-LF-BRKT-BV CAPABLE OF .25 GPM TO 12 GPM AT 25 PSI PRESSURE DROP WITH 1/2" CONNECTIONS, BRONZE BODY, THERMOSTAT, WITH LOCKING TEMPERATURE ADJUSTMENT, MOUNTING BRACKET, CABINET WITH STEEEL BAKED ENAMEL CONSTRUCTION, HINGED HARD DOOR AND CYLINDER LOCK. TEMPERATURE LIMITED TO 110°F.
	FD	FLOOR DRAIN: J.R. SMITH 2005-U, CAST IRON BODY WITH NICKEL BRASS STRAINER, CLAMPING COLLAR, VANDAL-PROOF SCREWS, COMPLETE WITH TRAP GUARD (TG), SIZE TO MATCH FLOOR DRAIN.
		TRAP 3" VENT 2" CW - HW -
	FS	FLOOR SINK: ZURN - SANI-FLOOR RECEPTOR, MODEL Z-1930, 8" X 4" X 4" DEEP CAST IRON BODY AND RECTANGULAR SQUARE HOLE , LIGHT DUTY GRATE1/2 GRATE, COMPLETE WITH TRAP GUARD, SIZE TO MATCH FLOOR SINK.
		TRAP VENT 2"
	TG	TRAP GUARD: SURE SEAL INLINE TRAP SEALER, SIZE TO MATCH FLOOR SINK / FLOOR DRAIN PER PLANS.
	WHA	WATER HAMMER ARRESTOR: STAINLESS STEEL CONSTRUCTION, PRE-CHARGED, PERMANENTLY SEALED. PIPE SIZE: 1", P.D.I. UNIT RATING: 12-32, MFG.: JAY R. SMITH FIG. NO. 5010.
	BFP	BACKFLOW PREVENTOR: WATTS SERIES LF009 REDUCED PRESSURE BACKFLOW PREVENTION DEVICE, LEAD FREE, TWO IN-LINE CHECK VALVES, CAPTURED SPRINGS AND REPLACEABLE CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE, WORKING PRESSURE UP TO 175 PSI AND WATER TEMPERATURES OF 33 F TO 180 F, USC APPROVED. FURNISH WITH AG-1 AIR GAP DRAIN AND PIPE FULL SIZE TO FLOOR SINK, 2" SIZE.
	WH	WATER HEATER: RHEEM ADVANTAGE PLUS GAS WATER HEATER MODEL HE80-160, TANK TYPE WATER HEATER, 80 GALLON CAPACITY, 184 GPH RECOVERY AT 100 DEGREE F RISE, HAVING AN INPUT RATING OF 160,000 BTU/H (NATURAL GAS), 95% THERMAL EFFICIENCY, 3" PVC/CPVC INTAKE AND EXHAUST WITH CONCENTRIC VENT KIT. ELECTRIC REQUIREMENTS 120V POWER SOURCE. WATER HEATER SHALL MEETS THERMAL EFFICIENCY REQUIREMENTS. OUTPUT TEMPERATURE SET TO 140 DEGREES F. CONNECTIONS: 1-1/2" COLD WATER INLET AND 1-1/2" HOT WATER OUTLET.
	ET	EXPANSION TANK: AMTROL ST-C SERIES MODEL ST-12-C PRE-PRESSURIZED TANK WITH SEALED IN AIR CHARGE OF 55 PSI. SIZE: TANK VOLUME=6.4 GAL., 3.2 GAL MAXIMUM RECOMMENDED ACCEPTANCE VOLUME.
	GI	GREASE INTERCEPTOR: SCHIER POLYETHYLENE GREASE INTERCEPTOR, MODEL GB-75 CAPABLE OF 75 GPM AND 125 GALLON CAPACITY, COMPLETE WITH RISER, ADAPTER, FINISH GRADE COVER AND ALL ACCESSORIES REQUIRED FOR A COMPLETE OPERATING UNIT, COMPLETE WITH EXTENSION AS REQUIRED, 4" INLET, 4" OUTLET.
		TRAP VENT 2"
F	RH	ROOF HYDRANT: WOODFORD RHY2, FREEZELESS ROOF HYDRANT, 50HF WITH 3/4" HOSE CONNECTION, 1" NPT FEMALE INLET CONNECTION, 1-1/4" GALVANIZED PIPE CASING, 1/8" NPT DRAIN HOLE (DRAIN AND ROUTE TO MOP BASIN), MOUNTING SYSTEM. INSTALL PER MANUFACTURE'S RECOMMENDATIONS.
		TRAP - VENT - CW 1" HW -

GENERAL PLUMBING NOTES

- A. ALL PIPING SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING, WHERE CONCEALMENT IS NOT POSSIBLE, SHALL BE INSTALLED AND PAINTED AS DIRECTED BY THE ARCHITECT.
- B. ALL PIPING SHALL BE INSULATED, SEE SPECIFICATIONS.
- C. ALL BRANCHES SHALL BE VALVED AND ALL VALVES SHALL HAVE UNIONS ADJACENT. ACCESS PANELS AND DOORS SHALL BE FURNISHED TO GENERAL CONTRACTOR FOR INSTALLATION AND ACCESS TO VALVES WHERE REQUIRED. LOCATE ADDITIONAL VALVES AS SHOWN ON DRAWINGS. SEE SPECIFICATIONS FOR ACCESS DOOR REQUIREMENTS.
- D. ALL PIPING SHALL PITCH TO DRAIN, AND CONTRACTOR SHALL PROVIDE VALVING FOR SYSTEM DRAINAGE. CONTRACTOR SHALL DELIVER A MARKED-UP SET OF PLANS TO THE OWNER (PRIOR TO FINAL PAYMENT) SHOWING ALL BRANCH VALVES AND ALL DRAINAGE POINTS.
- E. CARE SHALL BE TAKEN TO AVOID MECHANICAL DUCTWORK, ELECTRICAL EQUIPMENT AND AIR HANDLING EQUIPMENT ABOVE CEILING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ROUTING OF PIPING WITH CEILING CONTRACTOR AND SHEET METAL CONTRACTOR. RELOCATION OF PIPING AS A RESULT OF POOR COORDINATION BY THIS CONTRACTOR SHA**LL** BE AT HIS OWN EXPENSE.
- F. NO WATER PIPING SHALL BE LOCATED IN OUTSIDE WALLS, UNLESS SHOWN TO BE AND THEN PIPING TO BE INSULATED AND LOCATED AS CLOSE AS POSSIBLE TO INSIDE OF WALL CAVITY WITH ADDITIONAL INSULATION BETWEEN PIPING AND EXTERIOR OF WALL.
- G. WRITTEN PRIOR APPROVAL REQUIRED FOR ALL PROPOSED SUBSTITUTIONS OF EQUIPMENT AND MATERIALS, RECEIVED BY ENGINEER, 10 DAYS PRIOR TO BID DATE OF PROJECT TO ALLOW ADEQUATE TIME FOR REVIEW AND RESPONSE.
- H. ALL TRENCHING AND BACKFILL FOR PIPING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- I. ALL SEWER PIPING BELOW FLOOR SLAB (BELOW GRADE) SHALL BE STANDARD WEIGHT HUB AND SPIGOT CAST IRON.
- J. ALL PIPE PENETRATIONS THRU FIRE-RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED WITH CODE-APPROVED FIRE BARRIER MATERIALS.
- K. SECURE ALL PIPING TO WALLS FOR A RIGID INSTALLATION WITH UNISTRUT BRACKETS AND GASKETED PIPE CLAMPS.

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CITY OF ALBUQUEROUS PLANNING

SYMBOL	DES RIP beconstrued to be a permit for any vibrations of any code or ordinance
WC-1	WATER CLOSET: AMERICAN STANDARD "MADERATION" (BP-2019-26275) .001, 1.0 GPF, FLOOR MOUNTED, HIGH EFFICIENCY, SIPHON JET, ATRICOLO ON NA, ELO SEATED RIM BOLT CAPS (15" RIM HEIGHT), 1-1/2" TOP SPUD, SLOAN ROYAL 114 6 609/13/1960 VALVE, "SOREWDRIVER ANGLE STOP AND FLUSH CONNECTION, SOLID OF PLASTIC SEAT WITH OPEN FRONT, EXTENDED BACK AND SELF-SUSTAINING CHECK HIREST CONSTRUCTION.
	TRAP 4" VENT 2" CW 1" HW
WC-2	WATER CLOSET: AMERICAN STANDARD "MADERA 16.5" H EL 3461.001 1.6 GPF, FLOOR MOUNTED, HIGH EFFICIENCY, SIPHON JET, VITREOUS CHINA, ELONGATED RIM, BOLT CAPS (16.5" RIM HEIGHT), 1-1/2" TOP SPUD, SLOAN ROYAL 111 1.6 GPF FLUSH VALVE, 1" SCREWDRIVER ANGLE STOP AND FLUSH CONNECTION, SOLID WHITE PLASTIC SEAT WITH OPEN FRONT, EXTENDED BACK AND SELF-SUSTAINING CHECK HINGE, LESS COVER. UNIT SHALL MEET ALL ADA REQUIREMENTS FOR THE PHYSICALLY CHALLENGED.
	TRAP 4" VENT 2" CW 1" HW
UR	URINAL: AMERICAN STANDARD "LYNBROOK" 6601.012 1.0 GPF, VITREOUS CHINA, WALL URINAL, 3/4" TOP SPUD, JR SMITH NO. 0636 URINAL SUPPORT, SLOAN 8186-1.0 BATTERY-OPERATED 1.0 GPF FLUSH VALVE WITH VACUUM BREAKER, SCREWDRIVER ANGLE STOP AND FLUSH CONNECTION. UNIT SHALL MEET ALL ADA REQUIREMENTS FOR THE PHYSICALLY CHALLENGED. COLOR WHITE.
	TRAP 2" VENT 1-1/2" CW 3/4" HW -
LAV	LAVATORY: AMERICAN STANDARD "LUCERNE" 0355.012 VITREOUS CHINA LAVATORY WITH BACK, FRONT OVERFLOW, DRILLED FOR JR SMITH 0700 FLOOR SUPPORTED CARRIER WITH CONCEALED ARMS, 5402.172H HERITAGE SUPPLY FITTING WITH .5 GPM AERATOR, INDEXED HANDLES AND GRID DRAIN, CHROME PLATED CAST BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, AND CHROME PLATED CODE APPROVED ADJUSTABLE "P" TRAP WITH WASTE TO WALL, INSTALL FOR WHEELCHAIR USE. INSULATE ALL WATER PIPING AND TRAP BELOW LAVATORY WITH PLUMBEREX "PRO-EXTREME UNDER LAV. PROTECTOR, LAVATORY SIZE 20" X 18".
	TRAP 1-1/4" VENT 1-1/2" CW 1/2" HW 1/2"
HS	HAND SINK: ADVANCE TABCO MODEL 7-PS-54, WALL MOUNTED, 304 STAINLESS STEEL 20 GAUGE HAND SINK WITH SPLASH MOUNTED FAUCET, BASKET DRAIN, P-TRAP AND WALL BRACKET. PROVIDE ALL ASSOCIATED EQUIPMENT TO HAVE A FULLY OPERATIONAL SINK. SINK SIZE 17-1/4"X15-1/4"X5"
	TRAP 1-1/2" VENT 1-1/2" CW 1/2" HW 1/2"
SK-1	THREE COMPARTMENT SINK: (OWNER FURNISHED AND CONTRACTOR INSTALLED) ADVANCE TABCO MODEL 93-3-54-36RL 16 GAUGE TYPE 304 STAINLESS STEEL 8" HIGH SPLASH, FREE STANDING THREE-COMPARTMENT SINK, 87" X 27" X 12", T&S BRASS B-0231 12" SWING NOZZLE, WALL MOUNTED, 8" CENTERS SINK FAUCET WITH LEVER HANDLES, T&S BRASS MPQ-8WLV-08-CR PRE-RINSE UNIT WALL MOUNT, 8" SWIVEL, LEVER HANDLE, VACUUM BREAKER, 24" STAINLESS STEEL FLEX HOSE, 6" WALL BRACKET WITH SALVAJO 200-SA 3-MRSS-LD DISPOSER, SINK ASSEMBLY, 2 HP MOTOR, 208V/60/1-PH, 12.1 AMPS, T&S BRASS B-3950 2" DRAIN OUTLET WITH TWIST HANDLE. SINK SIZE 127"X27" WITH 36" DRAINBOARD AND (3) 16"x20"x12" COMPARTMENTS. CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES FOR A FULL OPERATIONAL SINK. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER. PROVIDE FLOOR SINK (FS).
	TRAP VENT CW 1/2" HW 1/2"
SK-2	SINK: (OWNER FURNISHED CONTRACTOR INSTALLED) ADVANCE TABCO MODEL TA-11Q-2 DOUBLE SINK WELDED INTO TABLE TOP, 10"W X 14"D X 5" DEEP BOWLS WITH FAUCET, K-4 SUPPORT BRACKET FOR LEVER WASTE DRAIN HANDLE. CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES FOR A FULL OPERATIONAL SINK. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER. PROVIDE FLOOR SINK.
	TRAP VENT CW 1/2" HW 1/2"
МВ	MOP BASIN: FIAT MODEL TSBC1611 NEO-CORNER SERIES, SIZE 32" X 32" X 12" DEEP, ONE PIECE MOLDED STONE, UNIT SHALL HAVE 12" HIGH WALLS WITH NOT LESS THAN 2" WIDE SHOULDERS COMPLETE WITH QDC-3XH QUICK DRAIN CONNECTOR, CHROME PLATED BRASS DRAIN, 830-AA MOP SERVICE FAUCET CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT, 832AA HOSE & HOSE BRACKET, 833AA SILICONE SEALANT AND 889-CC MOP HANGER.
	TRAP 3" VENT 2" CW 1/2" HW 1/2"



June 07, 2019 T. DURAN D. GRAHAM checked by: file name: 18074A_P601

QTY.	FIXTURE	# of Compart.	Compart.	Compart.	Compart.	Cubic Content Inches	Capacity in Gallons	Actual Drainag Load
1	3-comp sink	3	16		12	11520	49.87	37.4
			0	5244	0	0	0	
			0	0	0	0	0	
						0	0	
						0	0	
						0	0	
						0	0	
						0	0	
						0	0	
		3				0	0	
						0	0	
						0	0	
						0	0	
		4: ()			1	0	0	
						0	0	
2	Flr. Drain/Sinks	1				.0	37.5	
	TILL DIGIN, STINS						Total Actual Drainage Load	112.
	1 Minute Drain Period	112.40						
	2 Minute Drain Period	56.20						

	SYN	MBOL LEGEND
ABBR.	SYMBOL	DESCRIPTION
		EQUIPMENT DESIGNATION
		KEYED NOTES
TYP		TYPICAL
FCO		FLOOR CLEANOUT
wco	<u>-</u> II	WALL CLEANOUT
VTR	0	VENT THRU ROOF
	+ 5	RISER DOWN
	—ю	RISER UP
		DROP
	o	RISER UP
НВ		HOSE BIBB / WALL HYDRANT
CW		COLD WATER LINE
HW		HOT WATER LINE
HWR		CIRCULATING HOT WATER
V		VENT PIPING
s	s	SANITARY SEWER OR WASTE LINE
GI	—— GI ——	GREASE SEWER OR WASTE LINE
G	— G —	GAS PIPING
D	— D —	CONDENSATE DRAIN LINE
FD		FLOOR DRAIN
FS	×	FLOOR SINK
CAP	─	CAP ON END OF PIPE
	──	FLANGED CONNECTION
	* _	VALVE IN RISER
		THERMOMETER
	<u> </u>	PRESSURE GAUGE
	<u> </u>	FLOW SWITCH
		PRESSURE GAUGE W/ GAUGE COCK
	───	GATE VALVE
	─ ──	GLOBE VALVE
	<u> </u>	CHECK VALVE
	——I⊽⊢——	PLUG VALVE
		CONTROL VALVE (THREE-WAY)
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	CONTROL VALVE (TWO-WAY)
		RELIEF VALVE PRESSURE REDUCING VALVE
	 — 5 —	BALL VALVE
		BALANCING VALVE (BV)
	_ 	STRAINER
		UNION

SYMBOL DESCRIPTION										
WCO	WALL CLEANOUT: J.R. SMITH 4530-Y CAST IRON C.O. TEE WITH BRASS PLUG AND ROUND STAINLESS STEEL ACCESS COVER WITH VANDAL PROOF SCREW.									
FCO	FLOOR CLEANOUT: J.R. SMITH 4023, CAST IRON C.O., WITH ROUND SCORIATED TOP									
TMV	THERMOSTATIC MIXING VALVE: LEONARD MODEL 270-LF-BRKT-BV CAPABLE OF .25 GPM TO 1 GPM AT 25 PSI PRESSURE DROP WITH 1/2" CONNECTIONS, BRONZE BODY, THERMOSTAT, WITH LOCKING TEMPERATURE ADJUSTMENT, MOUNTING BRACKET, CABINET WITH STEEEL BAKED ENAMEL CONSTRUCTION, HINGED HARD DOOR AND CYLINDER LOCK. TEMPERATURE LIMITED TO 110°F.									
FD	FLOOR DRAIN: J.R. SMITH 2005-U, CAST IRON BODY WITH NICKEL BRASS STRAINER, CLAMPING COLLAR, VANDAL-PROOF SCREWS, COMPLETE WITH TRAP GUARD (TG), SIZE TO MATCH FLOODRAIN.									
	TRAP 3" VENT 2" CW - HW -									
FS	FLOOR SINK: ZURN - SANI-FLOOR RECEPTOR, MODEL Z-1930, 8" X 4" X 4" DEEP CAST IRON BODY AND RECTANGULAR SQUARE HOLE , LIGHT DUTY GRATE1/2 GRATE, COMPLETE WITH TRAP GUARD, SIZE TO MATCH FLOOR SINK.									
	TRAP VENT 2"									
TG	TRAP GUARD: SURE SEAL INLINE TRAP SEALER, SIZE TO MATCH FLOOR SINK / FLOOR DRAIN PER PLANS.									
WHA	WATER HAMMER ARRESTOR: STAINLESS STEEL CONSTRUCTION, PRE-CHARGED, PERMANENTLY SEALED. PIPE SIZE: 1", P.D.I. UNIT RATING: 12-32, MFG.: JAY R. SMITH FIG. NO. 5010.									
BFP	BACKFLOW PREVENTOR: WATTS SERIES LF009 REDUCED PRESSURE BACKFLOW PREVENTION DEVICE, LEAD FREE, TWO IN-LINE CHECK VALVES, CAPTURED SPRINGS AND REPLACEABLE CHECK SEATS WITH AN INTERMEDIATE RELIEF VALVE, WORKING PRESSURE UP TO 175 PSI AIM WATER TEMPERATURES OF 33 F TO 180 F, USC APPROVED. FURNISH WITH AG-1 AIR GAP DRAIND PIPE FULL SIZE TO FLOOR SINK, 2" SIZE.									
WH	WATER HEATER: RHEEM ADVANTAGE PLUS GAS WATER HEATER MODEL HE80-160, TANK TYP WATER HEATER, 80 GALLON CAPACITY, 184 GPH RECOVERY AT 100 DEGREE F RISE, HAVING AN INPUT RATING OF 160,000 BTU/H (NATURAL GAS), 95% THERMAL EFFICIENCY, 3" PVC/CPVC INTAKE AND EXHAUST WITH CONCENTRIC VENT KIT. ELECTRIC REQUIREMENTS 120V POWER SOURCE. WATER HEATER SHALL MEETS THERMAL EFFICIENCY REQUIREMENTS. OUTPUT TEMPERATURE SET TO 140 DEGREES F. CONNECTIONS: 1-1/2" COLD WATER INLET AND 1-1/2" HOT WATER OUTLET.									
ET	EXPANSION TANK: AMTROL ST-C SERIES MODEL ST-12-C PRE-PRESSURIZED TANK WITH SEALIN AIR CHARGE OF 55 PSI. SIZE: TANK VOLUME=6.4 GAL., 3.2 GAL MAXIMUM RECOMMENDED ACCEPTANCE VOLUME.									
GI	GREASE INTERCEPTOR: SCHIER POLYETHYLENE GREASE INTERCEPTOR, MODEL GB-75 CAPABLE OF 75 GPM AND 125 GALLON CAPACITY, COMPLETE WITH RISER, ADAPTER, FINISH GRADE COVER AND ALL ACCESSORIES REQUIRED FOR A COMPLETE OPERATING UNIT, COMPLETE WITH EXTENSION AS REQUIRED, 4" INLET, 4" OUTLET.									
	TRAP VENT 2"									
RH	ROOF HYDRANT: WOODFORD RHY2, FREEZELESS ROOF HYDRANT, 50HF WITH 3/4" HOSE CONNECTION, 1" NPT FEMALE INLET CONNECTION, 1-1/4" GALVANIZED PIPE CASING, 1/8" NPT DRAIN HOLE (DRAIN AND ROUTE TO MOP BASIN), MOUNTING SYSTEM. INSTALL PER MANUFACTURE'S RECOMMENDATIONS.									

GENERAL PLUMBING NOTES

- A. ALL PIPING SHALL BE CONCEALED WHERE POSSIBLE. ALL EXPOSED PIPING, WHERE CONCEALMENT IS NOT POSSIBLE, SHALL BE INSTALLED AND PAINTED AS DIRECTED BY THE ARCHITECT.
- B. ALL PIPING SHALL BE INSULATED, SEE SPECIFICATIONS.
- C. ALL BRANCHES SHALL BE VALVED AND ALL VALVES SHALL HAVE UNIONS ADJACENT. ACCESS PANELS AND DOORS SHALL BE FURNISHED TO GENERAL CONTRACTOR FOR INSTALLATION AND ACCESS TO VALVES WHERE REQUIRED. LOCATE ADDITIONAL VALVES AS SHOWN ON DRAWINGS. SEE SPECIFICATIONS FOR ACCESS DOOR REQUIREMENTS.
- D. ALL PIPING SHALL PITCH TO DRAIN, AND CONTRACTOR SHALL PROVIDE VALVING FOR SYSTEM DRAINAGE. CONTRACTOR SHALL DELIVER A MARKED-UP SET OF PLANS TO THE OWNER (PRIOR TO FINAL PAYMENT) SHOWING ALL BRANCH VALVES AND ALL DRAINAGE POINTS.
- E. CARE SHALL BE TAKEN TO AVOID MECHANICAL DUCTWORK, ELECTRICAL EQUIPMENT AND AIR HANDLING EQUIPMENT ABOVE CEILING. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ROUTING OF PIPING WITH CEILING CONTRACTOR AND SHEET METAL CONTRACTOR. RELOCATION OF PIPING AS A RESULT OF POOR COORDINATION BY THIS CONTRACTOR SHA**LL** BE AT HIS OWN EXPENSE.
- F. NO WATER PIPING SHALL BE LOCATED IN OUTSIDE WALLS, UNLESS SHOWN TO BE AND THEN PIPING TO BE INSULATED AND LOCATED AS CLOSE AS POSSIBLE TO INSIDE OF WALL CAVITY WITH ADDITIONAL INSULATION BETWEEN PIPING AND EXTERIOR OF WALL.
- G. WRITTEN PRIOR APPROVAL REQUIRED FOR ALL PROPOSED SUBSTITUTIONS OF EQUIPMENT AND MATERIALS, RECEIVED BY ENGINEER, 10 DAYS PRIOR TO BID DATE OF PROJECT TO ALLOW ADEQUATE TIME FOR REVIEW AND RESPONSE.
- H. ALL TRENCHING AND BACKFILL FOR PIPING SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR.
- I. ALL SEWER PIPING BELOW FLOOR SLAB (BELOW GRADE) SHALL BE STANDARD WEIGHT HUB AND SPIGOT CAST IRON.
- J. ALL PIPE PENETRATIONS THRU FIRE-RATED ASSEMBLIES SHALL BE SLEEVED AND SEALED WITH CODE-APPROVED FIRE BARRIER MATERIALS.
- K. SECURE ALL PIPING TO WALLS FOR A RIGID INSTALLATION WITH UNISTRUT BRACKETS AND GASKETED PIPE CLAMPS.

PLUMBING FIXTURE/FOURMERRS WEDGE

CITY OF ALBUQUERQUE

PLANNING

These plans have been reviewed for code compliance and are:

SYMBOL	DES PIP be construed to be a permit for any violations of any code or ordinance
WC-1	WATER CLOSET: AMERICAN STANDARD "MADERANTY" 'RE-2019-26275'.001, 1.0 GPF, FLOOR MOUNTED, HIGH EFFICIENCY, SIPHON JET, ATTREOUC OF N.A, F'LO SOATED RIM BOLT CAPS (15" RIM HEIGHT), 1-1/2" TOP SPUD, SLOAN ROYAL 6146.6 C9/13/1960 VALVE, "SOREWDRIVER ANGLE STOP AND FLUSH CONNECTION, SOLID OF HITT PLASTIC SEAT WITH OPEN FRONT, EXTENDED BACK AND SELF-SUSTAINING CHECK HIM STANDED SOLID OF HIS STANDED SITE FOR All
	TRAP 4" VENT 2" CW 1" HW
WC-2	WATER CLOSET: AMERICAN STANDARD "MADERA 16.5" H EL 3461.001 1.6 GPF, FLOOR MOUNTED, HIGH EFFICIENCY, SIPHON JET, VITREOUS CHINA, ELONGATED RIM, BOLT CAPS (16.5" RIM HEIGHT), 1-1/2" TOP SPUD, SLOAN ROYAL 111 1.6 GPF FLUSH VALVE, 1" SCREWDRIVER ANGLE STOP AND FLUSH CONNECTION, SOLID WHITE PLASTIC SEAT WITH OPEN FRONT, EXTENDED BACK AND SELF-SUSTAINING CHECK HINGE, LESS COVER. UNIT SHALL MEET ALL ADA REQUIREMENTS FOR THE PHYSICALLY CHALLENGED.
	TRAP 4" VENT 2" CW 1" HW
UR	URINAL: AMERICAN STANDARD "LYNBROOK" 6601.012 1.0 GPF, VITREOUS CHINA, WALL URINAL, 3/4" TOP SPUD, JR SMITH NO. 0636 URINAL SUPPORT, SLOAN 8186-1.0 BATTERY-OPERATED 1.0 GPF FLUSH VALVE WITH VACUUM BREAKER, SCREWDRIVER ANGLE STOP AND FLUSH CONNECTION. UNIT SHALL MEET ALL ADA REQUIREMENTS FOR THE PHYSICALLY CHALLENGED. COLOR WHITE.
	TRAP 2" VENT 1-1/2" CW 3/4" HW -
LAV	LAVATORY: AMERICAN STANDARD "LUCERNE" 0355.012 VITREOUS CHINA LAVATORY WITH BACK, FRONT OVERFLOW, DRILLED FOR JR SMITH 0700 FLOOR SUPPORTED CARRIER WITH CONCEALED ARMS, 5402.172H HERITAGE SUPPLY FITTING WITH .5 GPM AERATOR, INDEXED HANDLES AND GRID DRAIN, CHROME PLATED CAST BRASS ANGLE SUPPLIES WITH LOOSE KEY STOPS, AND CHROME PLATED CODE APPROVED ADJUSTABLE "P" TRAP WITH WASTE TO WALL, INSTALL FOR WHEELCHAIR USE. INSULATE ALL WATER PIPING AND TRAP BELOW LAVATORY WITH PLUMBEREX "PRO-EXTREME UNDER LAV. PROTECTOR, LAVATORY SIZE 20" X 18".
	TRAP 1-1/4" VENT 1-1/2" CW 1/2" HW 1/2"
HS	HAND SINK: ADVANCE TABCO MODEL 7-PS-54, WALL MOUNTED, 304 STAINLESS STEEL 20 GAUGE HAND SINK WITH SPLASH MOUNTED FAUCET, BASKET DRAIN, P-TRAP AND WALL BRACKET. PROVIDE ALL ASSOCIATED EQUIPMENT TO HAVE A FULLY OPERATIONAL SINK. SINK SIZE 17-1/4"X15-1/4"X5"
	TRAP 1-1/2" VENT 1-1/2" CW 1/2" HW 1/2"
SK-1	THREE COMPARTMENT SINK: (OWNER FURNISHED AND CONTRACTOR INSTALLED) ADVANCE TABCO MODEL 93-3-54-36RL 16 GAUGE TYPE 304 STAINLESS STEEL 8" HIGH SPLASH, FREE STANDING THREE-COMPARTMENT SINK, 87" X 27" X 12", T&S BRASS B-0231 12" SWING NOZZLE, WALL MOUNTED, 8" CENTERS SINK FAUCET WITH LEVER HANDLES, T&S BRASS MPQ-8WLV-08-CR PRE-RINSE UNIT WALL MOUNT, 8" SWIVEL, LEVER HANDLE, VACUUM BREAKER, 24" STAINLESS STEEL FLEX HOSE, 6" WALL BRACKET WITH SALVAJO 200-SA 3-MRSS-LD DISPOSER, SINK ASSEMBLY, 2 HP MOTOR, 208V/60/1-PH, 12.1 AMPS, T&S BRASS B-3950 2" DRAIN OUTLET WITH TWIST HANDLE. SINK SIZE 127"X27" WITH 36" DRAINBOARD AND (3) 16"x20"x12" COMPARTMENTS. CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES FOR A FULL OPERATIONAL SINK. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER. PROVIDE FLOOR SINK (FS).
	TRAP VENT CW 1/2" HW 1/2"
SK-2	SINK: (OWNER FURNISHED CONTRACTOR INSTALLED) ADVANCE TABCO MODEL TA-11Q-2 DOUBLE SINK WELDED INTO TABLE TOP, 10"W X 14"D X 5" DEEP BOWLS WITH FAUCET, K-4 SUPPORT BRACKET FOR LEVER WASTE DRAIN HANDLE. CONTRACTOR SHALL PROVIDE ALL REQUIRED ACCESSORIES FOR A FULL OPERATIONAL SINK. COORDINATE WITH KITCHEN EQUIPMENT SUPPLIER. PROVIDE FLOOR SINK.
	TRAP VENT CW 1/2" HW 1/2"
MB	MOP BASIN: FIAT MODEL TSBC1611 NEO-CORNER SERIES, SIZE 32" X 32" X 12" DEEP, ONE PIECE MOLDED STONE, UNIT SHALL HAVE 12" HIGH WALLS WITH NOT LESS THAN 2" WIDE SHOULDERS COMPLETE WITH QDC-3XH QUICK DRAIN CONNECTOR, CHROME PLATED BRASS DRAIN, 830-AA MOP SERVICE FAUCET CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT, 832AA HOSE & HOSE BRACKET, 833AA SILICONE SEALANT AND 889-CC MOP HANGER.
	TRAP 3" VENT 2" CW 1/2" HW 1/2"

June 07, 2019 T. DURAN D. GRAHAM checked by: file name: 18074_P601

P-601

4015 Carlisle Blvd NE Suite E Albuquerque, NM 87107 WWW.TESTUDOENG.COM, PH 505—554—1282

ELECTRICAL SYMBOL LEGEND

DESCRIPTION SYMBOL KEYED NOTE SYMBOL - ELECTRICAL. MECHANICAL EQUIPMENT DESIGNATION - SEE MECHANICAL EQUIPMENT SCHEDULE

(TYP) TYPICAL

ABOVE COUNTER WEATHERPROOF.

1 x 4 LED FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE. 2 x 4 LED FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE. LOWER CASE LETTER INDICATES SWITCH

BRACKET FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.

CEILING FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE. EMERGENCY FIXTURE WITH BATTERY PACK (SELF-TESTING/SELF-DIAGNOSTICS) AND OUTLET.

TYPE "EM" AS INDICATED IN FIXTURE SCHEDULE. CEILING MOUNTED DOUBLE FACE EXIT FIXTURE (SELF-TESTING/SELF-DIAGNOSTICS) AND OUTLET

WITH DIRECTIONAL ARROWS AS INDICATED. TYPE "EXIT" AS INDICATED IN FIXTURE SCHEDULE. SINGLE POLE 3-WAY WALL SWITCH. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED.

WALL SWITCH WITH OCCUPANCY SENSOR AUTO ON/AUTO OFF. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED.

(LOWER CASE LETTER, WHEN USED, DENOTES FIXTURES CONTROLLED).

THERMAL SWITCH. WEATHERPROOF IF INSTALLED OUTSIDE. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED.

FOUR-WAY WALL SWITCH. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED.

EQUIPMENT CONNECTION.

 \ominus 20 AMP DUPLEX CONVENIENCE RECEPTACLE, UP 18" OR AS INDICATED.

20 AMP WEATHERPROOF GROUND FAULT INTERRUPTING DUPLEX CONVENIENCE RECEPTACLE, UP 18" OR AS INDICATED. COVER TO BE CAST ALUMINUM "HUBBELL" #WP26M OR EQUAL.

FIRE ALARM AUTOMATIC DETECTOR, TYPE AS INDICATED (H-HEAT, I-IONIZATION, S/H-SMOKE H,I,S/H,D /HEAT, D-DUCT SMOKE). ALL DETECTORS "SMOKE" UNLESS OTHERWISE NOTED.

FIRE ALARM CONTROL PANEL

BRANCH CIRCUIT PANEL. SEE PANEL SCHEDULE FOR CHARACTERISTICS.

POWER DISTRIBUTING PANEL.

DATA/COMM. OUTLET, UP 18" OR AS NOTED. TYPE AS INDICATED (D-DATA ONLY, C-COMMUNICATIONS ONLY, W-WALL MOUNT UP 44", P-PAY PHONE). SEE DETAIL AND SPECIFICATIONS FOR CONDUIT/CABLE REQUIREMENTS.

SPECIAL PURPOSE RECEPTACLE. SEE DRAWINGS FOR TYPE, PROVIDE MATCHING PLUG CAP.

SMOKE ALARM. 120 VAC PHOTOELECTRONIC STATION TYPE. TANDEM WIRED WITH ALL SMOKE ALARMS IN UNIT. GENTEX MODEL #9120.

JUNCTION BOX FLUSH IN WALL. HEIGHT AS INDICATED FOR CONNECTION TO EQUIPMENT.

JUNCTION BOX MOUNTED TO CEILING.

MOTOR CONNECTION FOR FRACTIONAL HP MOTOR (LESS THAN 1/3 HP). PROVIDE THERMAL O.L. SWITCH ADJACENT TO ALL MOTORS UNLESS SWITCH IS SHOWN ELSEWHERE ON PLAN.

DISCONNECT SWITCH, FUSED, SUBSCRIPT INDICATES SWITCH AMPERAGE, NUMBER OF POLES AND FUSE SIZE. TO BE NEMA 4 IF INSTALLED OUTDOORS, PROVIDE FUSES AT 125% F.L.A. OF 30/3/20 UNIT UNLESS OTHERWISE INDICATED. VOLTAGE RATING AS REQUIRED BY SYSTEM.

FIRE ALARM MANUAL PULL STATION, UP 44". SEE SPECIFICATIONS FOR CONDUIT, WIRE AND DEVICE REQUIREMENTS.

FIRE ALARM AUDIO/VISUAL SIGNAL, DOWN 6" BELOW CEILING OR UP 6'-8" TO CENTER WHICHEVER IS LOWER). SEE SPECIFICATIONS FOR CONDUIT, WIRE AND DEVICE REQUIREMENTS.

ELECTRICAL GENERAL NOTES

- A. THE CONTRACTOR SHALL FAMILIARIZE THEMSELF WITH THE PROJECT PRIOR TO THE BID OPENING. TO ALLOW THEM TO SUBMIT A COMPLETE BID WITHIN THE SCOPE OF THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS ARISING DURING THE BID PERIOD, IN REGARD TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF THE WORK OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE ENGINEER FOR CLARIFICATION PRIOR TO AWARD OF CONTRACT.
- B. THE WORK INDICATED ON THE ELECTRICAL SITE PLAN AND THE POWER RISER DIAGRAM IS THE RESULT OF INITIAL CONTACT BY THE DESIGN ENGINEER WITH THE LOCAL ELECTRICAL UTILITY COMPANY. ADDITIONAL WORK MAY BE REQUIRED. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL REQUIREMENTS OF THE ELECTRICAL SERVICE WITH THE LOCAL ELECTRICAL UTILITY COMPANY AND PROVIDE, PRIMARY AND SECONDARY TRENCHING, CONDUITS, CONCRETE ENCASEMENT (WHERE APPLICABLE), PULL BOXES, BACKFILL AND PATCHING. ALL ASSOCIATED WORK REQUIRED FOR INSTALLATION OF THE ELECTRICAL SERVICE AND PRIMARY SYSTEMS BY THE LOCAL ELECTRICAL UTILITY INCLUDING FIELD COORDINATION AND ROUTING WITH THE UTILITY COMPANY IS THAT OF THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID WITHOUT EXCEPTION.
- C. IT WILL BE THE CONTRACTOR'S OBLIGATION TO INCLUDE, IN THEIR BID, THE COSTS FOR INSTALLING JUNCTION BOXES, PROVIDING MISCELLANEOUS COVERS, WORK WITH OTHER DISCIPLINES WHERE THE CONTRACT INVOLVES ELECTRICAL POWER OR CONTROL CONNECTIONS, SWITCHES, ETC. ALL OF THIS WORK SHALL BE PART OF THIS CONTRACT.
- D. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
- E. THE CONDUIT RUNS, AS SHOWN ON PLANS, INDICATE APPROXIMATE ROUTING. EXACT LOCATION OF CONDUIT RUNS SHALL BE AS FIELD CONDITIONS DICTATE.
- CONTRACTOR SHALL INSTALL PULL AND JUNCTION BOXES WHEREVER REQUIRED BY N.E.C. OR JOB CONDITIONS. ALL NEW WIRING SHALL BE TAGGED AT ALL PULL BOXES, JUNCTION BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS. ACTION CRAFT, BRADY OR APPROVED EQUAL.
- G. SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THE DRAWINGS, THEN IT WILL BE THEIR RESPONSIBILITY TO NOTIFY THE ENGINEER FOR CLARIFICATION, PRIOR TO COMMENCING SUCH WORK.
- H. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS.
- REMOVE AND INSTALL CEILING SUPPORTS AND TILES AS REQUIRED FOR THE COMPLETION OF THIS PROJECT. THIS CONTRACTOR SHALL INCLUDE REPLACEMENT OF CEILING TILES DAMAGED IN THE PROCESS OF THIS INSTALLATION WITH NEW MATCHING TILES. THE SAME APPLIES TO DAMAGE DONE TO OTHER KINDS OF CEILINGS.
- J. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO WALLS CEILINGS, ETC. IN A PROFESSIONAL MANNER. SEAL ALL WALL OR CEILING OPENINGS WITH MATCHING MATERIAL. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- K. CONTRACTOR SHALL MAKE AS-BUILT DRAWINGS DOCUMENTING ANY AND ALL WIRING AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT. PROVIDE UPDATED TYPEWRITTEN DIRECTORIES FOR ALL PANELS AND LABEL ALL PANELS WITH PLASTIC LAMINATED NAMEPLATES.
- L. INSTALL BLANK DEVICE PLATES ON ALL UNUSED JUNCTION BOXES IN FINISHED
- M. ALL ELECTRICAL WIRING SHALL BE ROUTED IN CONDUIT. WIRING BELOW CEILING SHALL BE CONCEALED IN WALLS. IN CASE OF SOLID WALLS, WIREMOLD #2000 SERIES MUST BE UTILIZED IN FINISHED AREAS.
- N. ALL WIREMOLD RUNS ARE TO BE LOCATED AS NEAR AS POSSIBLE, AT THE CORNER OF CEILING, WALL OR MOLDING, ETC. RUNS SHALL BE PARALLEL AND PERPENDICULAR TO BUILDING LINES.
- O. WIREMOLD #2000 DOES NOT HAVE A FULL RANGE OF FITTINGS. ALL 500, 700 AND 5700 FITTINGS MAY BE UTILIZED THROUGH USE OF #2089E FITTING.
- P. WIREMOLD JUNCTION BOXES TO BE #5740 SERIES (1 OR 2 GANG, DEPTH AS

REQUIRED FOR NUMBER OF WIRES USED) WITH BLANK PLATES.

- Q. IN ALL LOCATIONS WHERE EXISTING CIRCUITS ARE AFFECTED BY THE REMOVAL OF CONDUIT, WIRING, RECEPTACLES, LIGHTING FIXTURES. THE BLOCKING OUT OF EXISTING OUTLET BOXES, ETC. AND THE CIRCUITS ARE STILL REQUIRED TO FEED OTHER DEVICES OR EQUIPMENT WHICH ARE TO REMAIN AND MAINTAIN CIRCUIT CONTINUITY: THE CONTRACTOR SHALL REFEED THESE DEVICES OR EQUIPMENT WHICH ARE TO REMAIN IN SERVICE AFTER THE COMPLETION OF THE REMODEL AT NO ADDITIONAL COST TO THE OWNER.
- R. THE CONTRACTOR SHALL REPLACE ALL DAMAGED AND INOPERABLE DEVICES SUCH AS LIGHT SWITCHES, RECEPTACLES, ETC. AT NO ADDITIONAL COST THE
- S. REFER TO POWER PLANS FOR DETAILED LAYOUTS OF ELECTRICAL GEAR.
- T. AFTER THE CONTRACTOR HAS RECEIVED APPROVED SHOP DRAWINGS FOR THE ELECTRICAL DISTRIBUTION EQUIPMENT, THEY SHALL SUBMIT SCALED LAYOUTS OF ALL ELECTRICAL EQUIPMENT TO THE ENGINEER FOR APPROVAL TO ENSURE THAT ALL CLEARANCE REQUIREMENTS ARE MET. THIS SUBMITTAL SHALL BE PROVIDED WITH SUFFICIENT TIME SO AS NOT TO INTERFERE WITH THE TIMELY EXECUTION OF THE ROUGH-IN WORK THAT WILL BE REQUIRED.
- U. THE CONTRACTOR SHALL BE AWARE THAT ALL POWER SYSTEMS ARE OPERABLE AND SHALL REMAIN OPERABLE AT PROJECT COMPLETION. THIS REQUIRES THE CONTRACTOR TO "RING OUT" ALL CIRCUITS IN AREAS OF MODIFICATIONS PRIOR TO ANY WORK IN THESE AREAS AND TO MAINTAIN ALL SUCH BRANCH CIRCUITING AND CONTROLS OPERATIONAL AFTER MODIFICATIONS.
- V. INTERRUPTION OF ANY ELECTRICAL SERVICES OR SPECIAL SYSTEMS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AT LEAST SEVEN DAYS PRIOR TO THE INTENDED OUTAGE AND SHALL BE REQUESTED IN WRITING.
- W. WHEREVER REQUIRED, FURNISH AND INSTALL ON WALL OR CEILING FREESTANDING UNISTRUT CHANNELS, ANGLE IRONS OR ANY OTHER SUPPORT STRUCTURE WITH THREADED ROD HANGERS AS REQUIRED FOR THE SUPPORT OF ELECTRICAL EQUIPMENT OF ANY KIND TO ENSURE PROPER INSTALLATION.
- X. ALL NEW WIRING SHALL BE COPPER.
- Y. ALL HOME RUN CIRCUITING TO PANELS SHALL BE .75" CONDUIT, MINIMUM.
- Z. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL TIE HANDLES ON ALL CIRCUIT BREAKERS SHARING A NEUTRAL CONDUCTOR PER THE NEC.
- AA. MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES FOR EXACT HEIGHT FOR WALL BOXES, HVAC SENSORS, T-STATS, ETC. ANY THIS: OUTLET DEVICES THAT HAVE TO BE RELOCATED DUE TO COUNTERTOP, CHALKBOARD, TACKBOARD, OR, SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

ELECTRICAL SPECIFICATION OVED

- A. THE INSTALLATION SHALL COMPLY WITH YOUR AND STATE REGULATIONS APPLYING TO ELECTRICAL INSTALLATIONS AND WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE MATICNAL LECTRICAL CODE (NEC AND NATIONAL ELECTRICAL SAFETY CODE, WHERE PROPERTO AS MINIMUM REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHALL PAY FOR AND OBTAIN ALL PERMITS AND LICENSES REQUIRED 69/13/19 AND STATE AUTHORITIES. THE INSTALLATION OF ALL ELECTRICAL SYSTEMS SHALL BE TYPE IN A FIRST-CLASS WORKMAN LIKE MANNER BY QUALIFIED PROCESSING
- B. ALL MATERIALS SHALL BE NEW EXCEPT WHERE NOTED OTHERWISE. ALL WORK D SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE WHEN COMPLETED AND SHALL BE EXECUTED IN A WORKMANLIKE MANNER.

CITY OF ALBUQUERQU PLANNING

- C. ALL WIRING SHALL BE RUN IN RIGID CONDUIT, INTERMEDIATE METALLIC CONDUIT (IMC) OR ELECTRICAL METALLIC TUBING (EMT) INSTALLED IN ACCORDANCE WITH THE NEC. ALUMINUM CONDUIT SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS. CONDUIT INSTALLED UNDERGROUND IN CONTACT WITH EARTH OR FILL SHALL BE RIGID STEEL WITH AN 18 MIL PVC COATING OR SCHEDULE 40 PVC WITH RIGID STEEL PVC COATED ELBOWS AND RISERS. EMT OR ALUMINUM CONDUIT SHALL NOT BE INSTALLED IN CONCRETE SLABS OR BELOW GRADE. MINIMUM SIZE - 3/4 INCH. ALL CONDUITS CONTAINING POWER CONDUCTORS SHALL CONTAIN A EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC. A #9 PULL WIRE SHALL BE INSTALLED IN EACH EMPTY CONDUIT.
- D. ALL EMT COUPLINGS AND CONNECTORS SHALL BE COMPRESSION TYPE. INDENTER OR SET-SCREW TYPE COUPLINGS AND CONNECTORS SHALL NOT BE
- ALL OUTLET BOXES SHALL BE WELDED OR DEEP DRAWN ONE-PIECE STEEL. SECTIONAL BOXES SHALL NOT BE USED.
- F. ALL CONDUCTORS SHALL BE COPPER, #12 AWG MINIMUM SIZE, THWN INSULATION UNLESS NOTED OTHERWISE AND SHALL BE COLOR CODED AS INDICATED IN THE NEC. INCREASE BRANCH CIRCUIT WIRE SIZE AS REQUIRED TO PREVENT EXCESSIVE VOLTAGE DROP AS FOLLOWS: 60' TO 100' - #10 AWG; OVER 100' - #8
- G. THE CONDUIT SYSTEM AND NEUTRAL CONDUCTOR OF THE WIRING SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE NEC AND ALL LOCAL CODES AND ORDINANCES. GROUNDING AND BONDING SHALL COMPLY WITH ALL THE APPLICABLE REQUIREMENTS OF THE NEC.
- H. ALL SWITCH AND RECEPTACLE PLATES SHALL BE STAINLESS STEEL.
- I. ALL HOMERUNS SHALL BE .75" CONDUITS.
- ALL DISCONNECTS SWITCHES SHALL BE HEAVY DUTY.
- K. THE USE OF MC CABLE IS NOT PERMITTED.

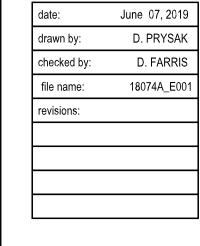
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D. PRYSAK drawn by: D. FARRIS checked by: file name: 18074A E00





ELECTRICAL SYMBOL LEGEND

SYMBOL DESCRIPTION KEYED NOTE SYMBOL - ELECTRICAL. MECHANICAL EQUIPMENT DESIGNATION - SEE MECHANICAL EQUIPMENT SCHEDULE.

(TYP) TYPICAL
AC ABOVE COUNTER

WP WEATHERPROOF.

1 x 4 LED FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.

2 x 4 LED FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE. LOWER CASE LETTER INDICATES SWITCH

BRACKET FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.

CEILING FIXTURE AND OUTLET. TYPE AS INDICATED IN FIXTURE SCHEDULE.

EMERGENCY FIXTURE WITH BATTERY PACK (SELF-TESTING/SELF-DIAGNOSTICS) AND OUTLET.

TYPE "EM" AS INDICATED IN FIXTURE SCHEDULE.

CEILING MOUNTED DOUBLE FACE EXIT FIXTURE (SELF-TESTING/SELF-DIAGNOSTICS) AND OUTLET

WITH DIRECTIONAL ARROWS AS INDICATED. TYPE "EXIT" AS INDICATED IN FIXTURE SCHEDULE.

SINGLE POLE 3-WAY WALL SWITCH. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED.

OC WALL SWITCH WITH OCCUPANCY SENSOR AUTO ON/AUTO OFF. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED.

FOUR-WAY WALL SWITCH. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED.

(LOWER CASE LETTER, WHEN USED, DENOTES FIXTURES CONTROLLED).

THERMAL SWITCH. WEATHERPROOF IF INSTALLED OUTSIDE. FLUSH MOUNTED UP 44" UNLESS OTHERWISE INDICATED.

EQUIPMENT CONNECTION.

20 AMP DUPLEX CONVENIENCE RECEPTACLE, UP 18" OR AS INDICATED.

20 AMP WEATHERPROOF GROUND FAULT INTERRUPTING DUPLEX CONVENIENCE RECEPTACLE, UP 18" OR AS INDICATED. COVER TO BE CAST ALUMINUM "HUBBELL" #WP26M OR EQUAL.

FIRE ALARM AUTOMATIC DETECTOR, TYPE AS INDICATED (H-HEAT, I-IONIZATION, S/H-SMOKE H,I,S/H,D /HEAT, D-DUCT SMOKE). ALL DETECTORS "SMOKE" UNLESS OTHERWISE NOTED.

FIRE ALARM CONTROL PANEL.

BRANCH CIRCUIT PANEL. SEE PANEL SCHEDULE FOR CHARACTERISTICS.

POWER DISTRIBUTING PANEL.

DATA/COMM. OUTLET, UP 18" OR AS NOTED. TYPE AS INDICATED (D-DATA ONLY, C-COMMUNICATIONS ONLY, W-WALL MOUNT UP 44", P-PAY PHONE). SEE DETAIL AND SPECIFICATIONS FOR CONDUIT/CABLE REQUIREMENTS.

SPECIAL PURPOSE RECEPTACLE. SEE DRAWINGS FOR TYPE, PROVIDE MATCHING PLUG CAP.

SMOKE ALARM. 120 VAC PHOTOELECTRONIC STATION TYPE. TANDEM WIRED WITH ALL SMOKE ALARMS IN UNIT. GENTEX MODEL #9120.

JH JUNCTION BOX FLUSH IN WALL. HEIGHT AS INDICATED FOR CONNECTION TO EQUIPMENT.

JUNCTION BOX MOUNTED TO CEILING.

MOTOR CONNECTION FOR FRACTIONAL HP MOTOR (LESS THAN 1/3 HP). PROVIDE THERMAL O.L. SWITCH ADJACENT TO ALL MOTORS UNLESS SWITCH IS SHOWN ELSEWHERE ON PLAN.

DISCONNECT SWITCH, FUSED, SUBSCRIPT INDICATES SWITCH AMPERAGE, NUMBER OF POLES AND FUSE SIZE. TO BE NEMA 4 IF INSTALLED OUTDOORS. PROVIDE FUSES AT 125% F.L.A. OF UNIT UNLESS OTHERWISE INDICATED. VOLTAGE RATING AS REQUIRED BY SYSTEM.

FIRE ALARM MANUAL PULL STATION, UP 44". SEE SPECIFICATIONS FOR CONDUIT, WIRE AND DEVICE REQUIREMENTS.

FIRE ALARM AUDIO/VISUAL SIGNAL, DOWN 6" BELOW CEILING OR UP 6'-8" TO CENTER
WHICHEVER IS LOWER). SEE SPECIFICATIONS FOR CONDUIT, WIRE AND DEVICE REQUIREMENTS.

ELECTRICAL GENERAL NOTES

- A. THE CONTRACTOR SHALL FAMILIARIZE THEMSELF WITH THE PROJECT PRIOR TO THE BID OPENING, TO ALLOW THEM TO SUBMIT A COMPLETE BID WITHIN THE SCOPE OF THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS ARISING DURING THE BID PERIOD, IN REGARD TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF THE WORK OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE ENGINEER FOR CLARIFICATION PRIOR TO AWARD OF CONTRACT.
- B. THE WORK INDICATED ON THE ELECTRICAL SITE PLAN AND THE POWER RISER DIAGRAM IS THE RESULT OF INITIAL CONTACT BY THE DESIGN ENGINEER WITH THE LOCAL ELECTRICAL UTILITY COMPANY. ADDITIONAL WORK MAY BE REQUIRED. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL REQUIREMENTS OF THE ELECTRICAL SERVICE WITH THE LOCAL ELECTRICAL UTILITY COMPANY AND PROVIDE, PRIMARY AND SECONDARY TRENCHING, CONDUITS, CONCRETE ENCASEMENT (WHERE APPLICABLE), PULL BOXES, BACKFILL AND PATCHING. ALL ASSOCIATED WORK REQUIRED FOR INSTALLATION OF THE ELECTRICAL SERVICE AND PRIMARY SYSTEMS BY THE LOCAL ELECTRICAL UTILITY INCLUDING FIELD COORDINATION AND ROUTING WITH THE UTILITY COMPANY IS THAT OF THE ELECTRICAL CONTRACTOR AND SHALL BE INCLUDED IN THE CONTRACTOR'S BID WITHOUT EXCEPTION.
- C. IT WILL BE THE CONTRACTOR'S OBLIGATION TO INCLUDE, IN THEIR BID, THE COSTS FOR INSTALLING JUNCTION BOXES, PROVIDING MISCELLANEOUS COVERS, WORK WITH OTHER DISCIPLINES WHERE THE CONTRACT INVOLVES ELECTRICAL POWER OR CONTROL CONNECTIONS, SWITCHES, ETC. ALL OF THIS WORK SHALL BE PART OF THIS CONTRACT.
- D. LOCATION OF EQUIPMENT AND OTHER DEVICES SHOWN ON THE PLANS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED.
- E. THE CONDUIT RUNS, AS SHOWN ON PLANS, INDICATE APPROXIMATE ROUTING. EXACT LOCATION OF CONDUIT RUNS SHALL BE AS FIELD CONDITIONS DICTATE.
- F. CONTRACTOR SHALL INSTALL PULL AND JUNCTION BOXES WHEREVER REQUIRED BY N.E.C. OR JOB CONDITIONS. ALL NEW WIRING SHALL BE TAGGED AT ALL PULL BOXES, JUNCTION BOXES, EQUIPMENT BOXES AND CABINETS WITH APPROVED PLASTIC TAGS. ACTION CRAFT, BRADY OR APPROVED EQUAL.
- G. SHOULD CONTRACTOR AT ANY TIME NOTICE THAT THE ACTUAL FIELD CONDITIONS DO NOT CORRESPOND TO THE INFORMATION GIVEN ON THE DRAWINGS, THEN IT WILL BE THEIR RESPONSIBILITY TO NOTIFY THE ENGINEER FOR CLARIFICATION, PRIOR TO COMMENCING SUCH WORK.
- H. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH ALL TRADES FOR THE EXACT LOCATION OF EQUIPMENT AND APPURTENANCES THAT REQUIRE ELECTRICAL CONNECTIONS.
- I. REMOVE AND INSTALL CEILING SUPPORTS AND TILES AS REQUIRED FOR THE COMPLETION OF THIS PROJECT. THIS CONTRACTOR SHALL INCLUDE REPLACEMENT OF CEILING TILES DAMAGED IN THE PROCESS OF THIS INSTALLATION WITH NEW MATCHING TILES. THE SAME APPLIES TO DAMAGE DONE TO OTHER KINDS OF CEILINGS.
- J. THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO WALLS CEILINGS, ETC. IN A PROFESSIONAL MANNER. SEAL ALL WALL OR CEILING OPENINGS WITH MATCHING MATERIAL. THIS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER.
- K. CONTRACTOR SHALL MAKE AS-BUILT DRAWINGS DOCUMENTING ANY AND ALL WIRING AND EQUIPMENT CONDITIONS AND CHANGES WHILE COMPLETING THIS CONTRACT. PROVIDE UPDATED TYPEWRITTEN DIRECTORIES FOR ALL PANELS AND LABEL ALL PANELS WITH PLASTIC LAMINATED NAMEPLATES.
- L. INSTALL BLANK DEVICE PLATES ON ALL UNUSED JUNCTION BOXES IN FINISHED
- M. ALL ELECTRICAL WIRING SHALL BE ROUTED IN CONDUIT. WIRING BELOW CEILING SHALL BE CONCEALED IN WALLS. IN CASE OF SOLID WALLS, WIREMOLD #2000 SERIES MUST BE UTILIZED IN FINISHED AREAS.
- N. ALL WIREMOLD RUNS ARE TO BE LOCATED AS NEAR AS POSSIBLE, AT THE CORNER OF CEILING, WALL OR MOLDING, ETC. RUNS SHALL BE PARALLEL AND PERPENDICULAR TO BUILDING LINES.
- O. WIREMOLD #2000 DOES NOT HAVE A FULL RANGE OF FITTINGS. ALL 500, 700 AND 5700 FITTINGS MAY BE UTILIZED THROUGH USE OF #2089E FITTING.
- P. WIREMOLD JUNCTION BOXES TO BE #5740 SERIES (1 OR 2 GANG, DEPTH AS REQUIRED FOR NUMBER OF WIRES USED) WITH BLANK PLATES.
- Q. IN ALL LOCATIONS WHERE EXISTING CIRCUITS ARE AFFECTED BY THE REMOVAL OF CONDUIT, WIRING, RECEPTACLES, LIGHTING FIXTURES. THE BLOCKING OUT OF EXISTING OUTLET BOXES, ETC. AND THE CIRCUITS ARE STILL REQUIRED TO FEED OTHER DEVICES OR EQUIPMENT WHICH ARE TO REMAIN AND MAINTAIN CIRCUIT CONTINUITY: THE CONTRACTOR SHALL REFEED THESE DEVICES OR EQUIPMENT WHICH ARE TO REMAIN IN SERVICE AFTER THE COMPLETION OF THE REMODEL AT NO ADDITIONAL COST TO THE OWNER.
- R. THE CONTRACTOR SHALL REPLACE ALL DAMAGED AND INOPERABLE DEVICES SUCH AS LIGHT SWITCHES, RECEPTACLES, ETC. AT NO ADDITIONAL COST THE OWNER.
- S. REFER TO POWER PLANS FOR DETAILED LAYOUTS OF ELECTRICAL GEAR.
- T. AFTER THE CONTRACTOR HAS RECEIVED APPROVED SHOP DRAWINGS FOR THE ELECTRICAL DISTRIBUTION EQUIPMENT, THEY SHALL SUBMIT SCALED LAYOUTS OF ALL ELECTRICAL EQUIPMENT TO THE ENGINEER FOR APPROVAL TO ENSURE THAT ALL CLEARANCE REQUIREMENTS ARE MET. THIS SUBMITTAL SHALL BE PROVIDED WITH SUFFICIENT TIME SO AS NOT TO INTERFERE WITH THE TIMELY EXECUTION OF THE ROUGH-IN WORK THAT WILL BE REQUIRED.
- U. THE CONTRACTOR SHALL BE AWARE THAT ALL POWER SYSTEMS ARE OPERABLE AND SHALL REMAIN OPERABLE AT PROJECT COMPLETION. THIS REQUIRES THE CONTRACTOR TO "RING OUT" ALL CIRCUITS IN AREAS OF MODIFICATIONS PRIOR TO ANY WORK IN THESE AREAS AND TO MAINTAIN ALL SUCH BRANCH CIRCUITING AND CONTROLS OPERATIONAL AFTER MODIFICATIONS.
- V. INTERRUPTION OF ANY ELECTRICAL SERVICES OR SPECIAL SYSTEMS SHALL BE COORDINATED WITH THE OWNER'S REPRESENTATIVE AT LEAST SEVEN DAYS PRIOR TO THE INTENDED OUTAGE AND SHALL BE REQUESTED IN WRITING.
- W. WHEREVER REQUIRED, FURNISH AND INSTALL ON WALL OR CEILING FREESTANDING UNISTRUT CHANNELS, ANGLE IRONS OR ANY OTHER SUPPORT STRUCTURE WITH THREADED ROD HANGERS AS REQUIRED FOR THE SUPPORT OF ELECTRICAL EQUIPMENT OF ANY KIND TO ENSURE PROPER INSTALLATION.
- X. ALL NEW WIRING SHALL BE COPPER.
- Y. ALL HOME RUN CIRCUITING TO PANELS SHALL BE .75" CONDUIT, MINIMUM.
- Z. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL TIE HANDLES ON ALL CIRCUIT BREAKERS SHARING A NEUTRAL CONDUCTOR PER THE NEC.
- AA. MOUNTING HEIGHTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH OTHER TRADES FOR EXACT HEIGHT FOR WALL BOXES, HVAC SENSORS, T-STATS, ETC. ANY THIS: OUTLET DEVICES THAT HAVE TO BE RELOCATED DUE TO COUNTERTOP, CHALKBOARD, TACKBOARD, OR, SHALL BE RELOCATED AT NO ADDITIONAL COST TO THE OWNER.

ELECTRICAL SPECIFICATION OF THE PROPERTY OF TH

- A. THE INSTALLATION SHALL COMPLY WORK AND STATE REGULATIONS APPLYING TO ELECTRICAL INSTALLATIONAL ELECTRICAL SAFETY CODE, WHEN TO PPLYOND AS MINIMUM REQUIREMENTS. THE ELECTRICAL CONTRACTOR SHOUL PAY FOR AND OBTAIN ALL PERMITS AND LICENSES REQUIRED 99/13/19 AND STATE AUTHORITIES. THE INSTALLATION OF ALL ELECTRICAL SYSTEMS SHALL BE TUNKE IN A FIRST-CLASS WORKMAN LIKE MANNER BY QUALIFIED PROCESSING.
- B. ALL MATERIALS SHALL BE NEW EXCEPT WHERE NOTED OTHERWISE. ALL WORK D SHALL PRESENT A NEAT AND MECHANICAL APPEARANCE WHEN COMPLETED AND SHALL BE EXECUTED IN A WORKMANLIKE MANNER.

CITY OF ALBUQUERQU PLANNING

- C. ALL WIRING SHALL BE RUN IN RIGID CONDUIT, INTERMEDIATE METALLIC CONDUIT (IMC) OR ELECTRICAL METALLIC TUBING (EMT) INSTALLED IN ACCORDANCE WITH THE NEC. ALUMINUM CONDUIT SHALL NOT BE USED UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS. CONDUIT INSTALLED UNDERGROUND IN CONTACT WITH EARTH OR FILL SHALL BE RIGID STEEL WITH AN 18 MIL PVC COATING OR SCHEDULE 40 PVC WITH RIGID STEEL PVC COATED ELBOWS AND RISERS. EMT OR ALUMINUM CONDUIT SHALL NOT BE INSTALLED IN CONCRETE SLABS OR BELOW GRADE. MINIMUM SIZE 3/4 INCH. ALL CONDUITS CONTAINING POWER CONDUCTORS SHALL CONTAIN A EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE NEC. A #9 PULL WIRE SHALL BE INSTALLED IN EACH EMPTY CONDUIT.
- D. ALL EMT COUPLINGS AND CONNECTORS SHALL BE COMPRESSION TYPE. INDENTER OR SET-SCREW TYPE COUPLINGS AND CONNECTORS SHALL NOT BE
- E. ALL OUTLET BOXES SHALL BE WELDED OR DEEP DRAWN ONE-PIECE STEEL. SECTIONAL BOXES SHALL NOT BE USED.
- F. ALL CONDUCTORS SHALL BE COPPER, #12 AWG MINIMUM SIZE, THWN INSULATION UNLESS NOTED OTHERWISE AND SHALL BE COLOR CODED AS INDICATED IN THE NEC. INCREASE BRANCH CIRCUIT WIRE SIZE AS REQUIRED TO PREVENT EXCESSIVE VOLTAGE DROP AS FOLLOWS: 60' TO 100' #10 AWG; OVER 100' #8 AWG.
- G. THE CONDUIT SYSTEM AND NEUTRAL CONDUCTOR OF THE WIRING SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE NEC AND ALL LOCAL CODES AND ORDINANCES. GROUNDING AND BONDING SHALL COMPLY WITH ALL THE APPLICABLE REQUIREMENTS OF THE NEC.
- H. ALL SWITCH AND RECEPTACLE PLATES SHALL BE STAINLESS STEEL.
- I. ALL HOMERUNS SHALL BE .75" CONDUITS.
- J. ALL DISCONNECTS SWITCHES SHALL BE HEAVY DUTY.
- K. THE USE OF MC CABLE IS NOT PERMITTED.

Dan R Jamie

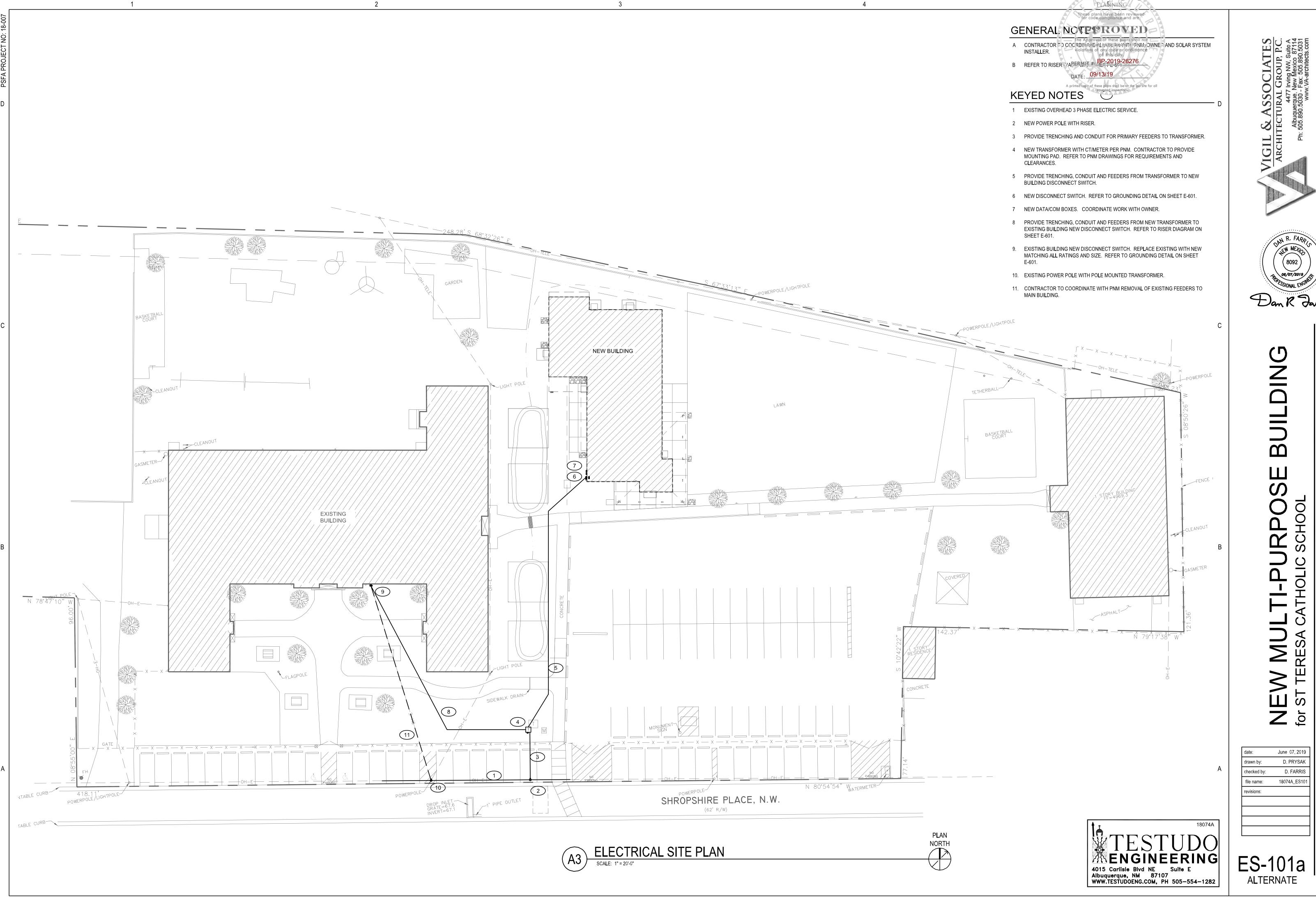
NEW MULTI-PL

date: June 07, 2019
drawn by: D. PRYSAK
checked by: D. FARRIS
file name: 18074_E001
revisions:

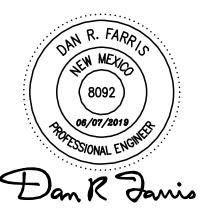
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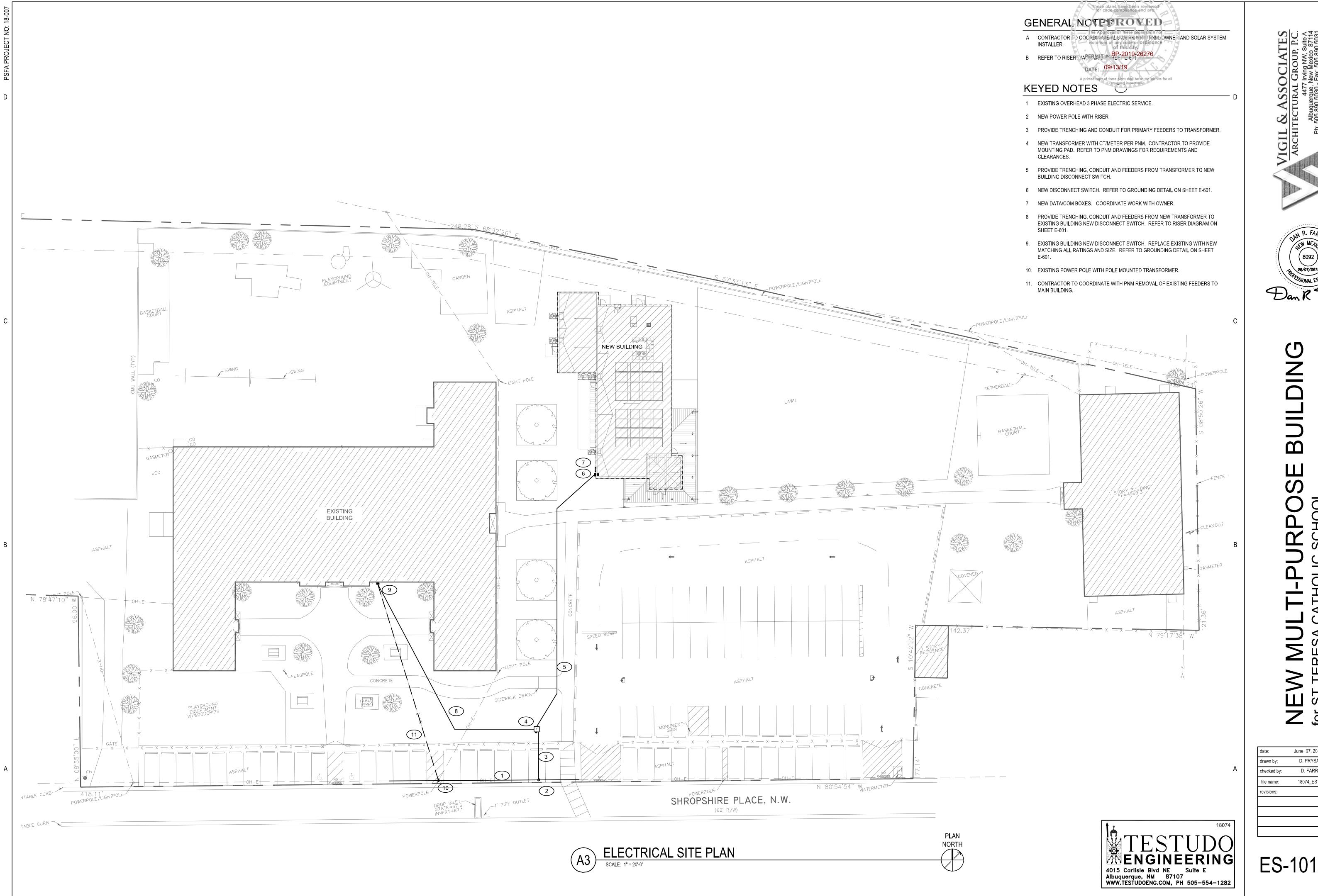
E-001



CITY OF ALBUQUERQU



June 07, 2019 D. PRYSAK D. FARRIS 18074A_ES10



CITY OF ALBUQUERQU PLANNING



June 07, 2019 D. PRYSAK D. FARRIS 18074_ES10

GENERAL NCTPPROVED

The Approval of these plans shall not

A. SEE LUMINAIF I SCHE Delicast New to be a vice in the plans of the second of these plans shall not in the second of the se

B. FOR ANY LUMINAIRES HAVING A PLEMERS 2627 OF IVER, PROVIDE AN ADDITIONAL UNSWITCHELD DUCTOR STORM IN AIRES WILL COME ON DURING POWER FAILURE. WOST 13 HOLD IN AND CIFE, AND THE BATTERY WILL STILL MAINTAIN IT COMMENDATIONS, SO THAT THE LUMINAIR CANTAL SWITCHLD IN AND CIFE, AND THE BATTERY WILL STILL MAINTAIN IT COMMENDATIONS of these plans shall be on the job site for all requested inspections.

CITY OF ALBUQUERQUE PLANNING

- C. PROVIDE ALL LIGHTING CONTROL EQUIPMENT WIRING PER MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS.
- D. CONNECT ALL NEW EXIT AND EMERGENCY EGRESS LIGHTS TO UN-SWITCHED POWER CIRCUITS.
- E. PROVIDE ALL LIGHTING CONTROL EQUIPMENT WIRING PER MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS.
- F. CONTRACTOR SHALL COORDINATE LUMINAIRE MOUNTING HEIGHTS AND LOCATIONS WITH OWNER.

ARCHITECTURAL GROUP, P.C.

Albuquerque, New Mexico 87114
Ph: 505.890.5030 - Fax: 505.890.5031

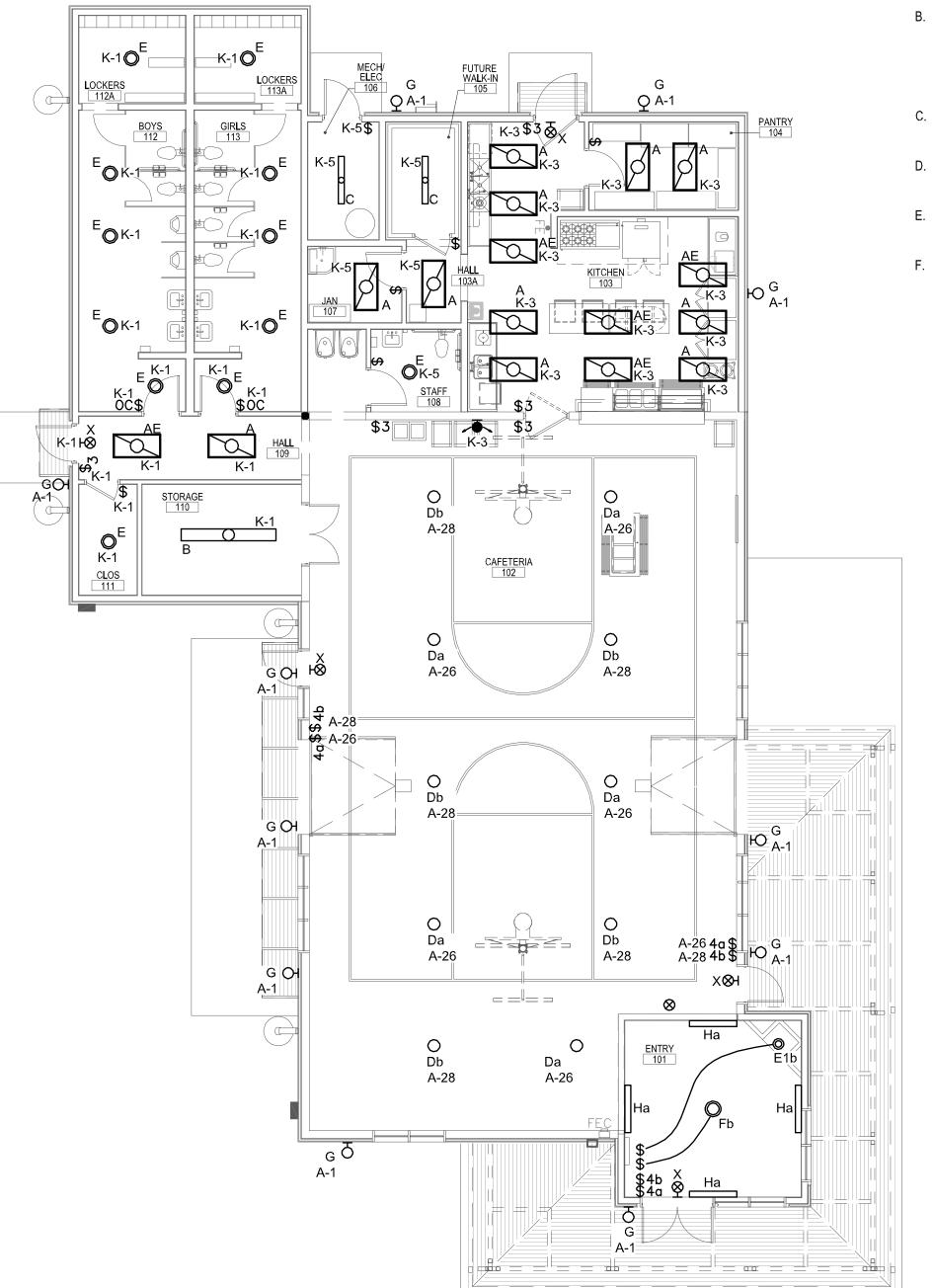
www.VA-architects.com

June 07, 2019

E-101a ALTERNATE

FIXTURE SCHEDULE TYPE VOLT WATTS MANUFACTURER NUMBER LUMENS MOUNTING FIXTURE DESCRIPTION 120 28 COLUMBIA #LCAT24-35VW-G-EDU 2X4 LED TROFFER 3217 RECESSED AE 3217 28 120 COLUMBIA #LCAT24-35VW-G-EDU-ELL14 2X4 LED TROFFER W/ EM PACK RECESSED 120 38 COLUMBIA #LCS8-35LW-EU-(2)CSWG4 8' OPEN LED STRIP W/WIREGUARD 5506 SURFACE 19 120 4' OPEN LED STRIP W/WIREGUARD 2753 SURFACE COLUMBIA #LCS4-35LW-EU-CSWG4 150 120 EVERLAST # EL-LED-HL15D-LG-150-L-40-B-NPT75-D 23500 SUSPENDED D HIGH BAY ON PIPE 6" OPEN LED DOWNLIGHT. CLEAR ALZAK REFLECTOR. 0-10 DIM 1100 12.6 120 PRESCOLITE #LF6SL-6LFSL-11L35K8-B24 RECESSED STD. 4" OPEN LED DOWNLIGHT. CLEAR ALZAK REFLECTOR. 0-10 DIM E1 120 PRESCOLITE #LF4SL-4LFSL-11L35K8-B24 1100 12.6 RECESSED STD. SUSPENDED PROGRESS #P2530-30 54" CEILING FAN. WHITE FINISH LOW PROFILE LED WALL PACK. TYPE III DISTRIBUTION. FINISH 5021 40 120 TRACELITE #WLZ4-3-4K-FINISH-BB EXTERIOR WALL LUMENWERX#VIA3WDI-HLO-LED-80-500-750-35-4'-UNV- 4' INDIRECT/DIRECT WALL MOUNT. SINGLE CKT. FINISH TBD. 1% 3000 INDRECT/ 82.5 120 WALL D1-1-DMB-FINISH DIMMING DRIVER. 2000 DIRECT WHITE THERMOPLASTIC EXT W/INTEGRAL LED LIGHT BARS. 120 EXITRONIX #CLEDUWHG2 UNIV SELF-DIAGNOSTICS.

1. FIXTURES WITH CATALOG INFORMATION LISTED ABOVE ARE USED AS A BASIS OF QUALITY AND PERFORMANCE. SUBSTITUTIONS/PRIOR APPROVALS SHALL COMPLY WITH SCHEDULE AND SPECIFICATIONS. IF THE FIXTURE(S) PROPOSED FOR SUBSTITUTION DO NOT COMPLY, IN OUR OPINION, THEY WILL BE REJECTED.



LIGHTING PLAN

			FIXTURE SCHEDULE			
TYPE	VOLT	MANUFACTURER NUMBER	FIXTURE DESCRIPTION	LUMENS	WATTS	MOUNTING
Α	120	COLUMBIA #LCAT24-35VW-G-EDU	2X4 LED TROFFER	3217	28	RECESSED
AE	120	COLUMBIA #LCAT24-35VW-G-EDU-ELL14	2X4 LED TROFFER W/ EM PACK	3217	28	RECESSED
В	120	COLUMBIA #LCS8-35LW-EU-(2)CSWG4	8' OPEN LED STRIP W/WIREGUARD	5506	38	SURFACE
С	120	COLUMBIA #LCS4-35LW-EU-CSWG4	4' OPEN LED STRIP W/WIREGUARD	2753	19	SURFACE
D	120	LUMENWERX #VIA4PDI-HLO-WIO-LED-80-750-500-35-16' UNV-D1-1-53WAC36-FINISH	-16' INDIRECT/DIRECT LINEAR PENDANT. SINGLE CKT. FINISH TBD.1% DIMMING DRIVER.	8000 INDIRECT/ 12000 DIRECT	320	SUSPENDED
E	120	PRESCOLITE #LF6SL-6LFSL-11L35K8-B24	6" OPEN LED DOWNLIGHT. CLEAR ALZAK REFLECTOR. 0-10 DIM STD.	1100	12.6	RECESSED
E1	120	PRESCOLITE #LF4SL-4LFSL-11L35K8-B24	4" OPEN LED DOWNLIGHT. CLEAR ALZAK REFLECTOR. 0-10 DIM STD.	1100	12.6	RECESSED
F		PROGRESS #P2530-30	54" CEILING FAN. WHITE FINISH			SUSPENDED
G	120	TRACELITE #WLZ4-3-4K-FINISH-BB	LOW PROFILE LED WALL PACK. TYPE III DISTRIBUTION. FINISH TBD.	5021	40	EXTERIOR WALL
Н	120	LUMENWERX #VIA3WDI-HLO-LED-80-500-750-35-4'-UNV- D1-1-DMB-FINISH	4' INDIRECT/DIRECT WALL MOUNT. SINGLE CKT. FINISH TBD. 1% DIMMING DRIVER.	3000 INDRECT/ 2000 DIRECT	82.5	WALL
x	120	EXITRONIX#CLEDUWHG2	WHITE THERMOPLASTIC EXIT W/INTEGRAL LED LIGHT BARS. SELF-DIAGNOSTICS.			UNIV

NOTES:

1. FIXTURES WITH CATALOG INFORMATION LISTED ABOVE ARE USED AS A BASIS OF QUALITY AND PERFORMANCE. SUBSTITUTIONS/PRIOR APPROVALS SHALL COMPLY WITH SCHEDULE AND SPECIFICATIONS. IF THE FIXTURE(S) PROPOSED FOR SUBSTITUTION DO NOT COMPLY, IN OUR OPINION, THEY WILL BE REJECTED.

2 THERE IS ADDITIONAL INFORMATION IN SPECIFICATION SECTION 16500 THAT SHALL BE FOLLOWED

GENERAL NCTPPROVED

- A. SEE LUMINAIF I SCHE Deliconst New Long of these plans shall not a SEE LUMINAIF I SCHE Deliconst New Long of the back of this city.

 B. FOR ANY LUMIN AIRES HAVING BEENERS 2627 OF IVER, FIOVIDE AN ADDITIONAL UNSWITTER LET TOURS STORY OF STORY AIR AIR AIR AIR ONE ON DURING POWER F, URE. Woorts And Control of And Control of And The Luminaire. Can 5.2 Switched on And Control of And The Battery will Still Maintain ITS 企业系统 (these plans shall be on the job site for all requested inspections.

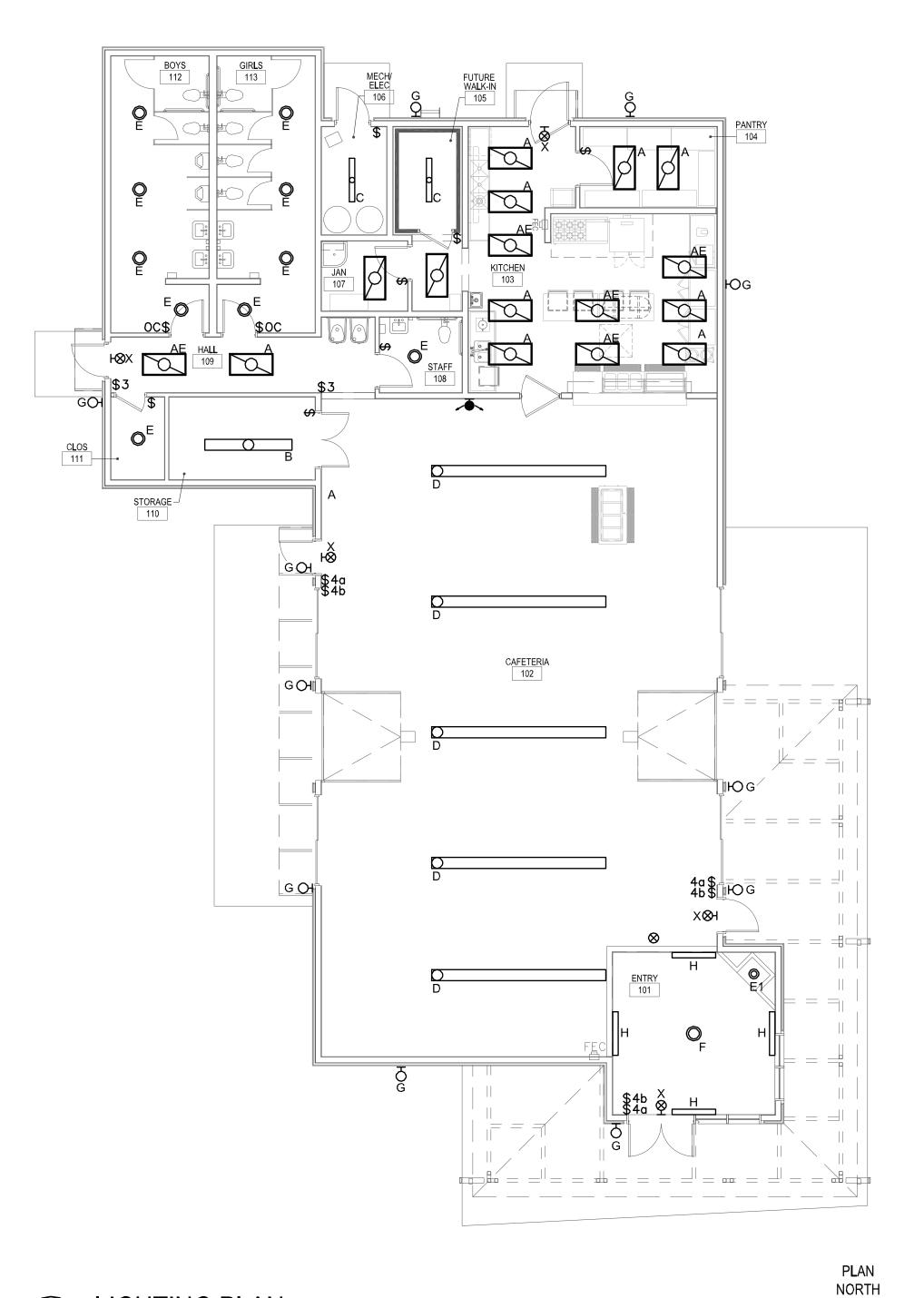
CITY OF ALBUQUEROUS PLANNING

- C. PROVIDE ALL LIGHTING CONTROL EQUIPMENT WIRING PER MANUFACTURER SPECIFICATIONS AND RECOMMENDATIONS.
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- F. CONTRACTOR SHALL COORDINATE LUMINAIRE MOUNTING HEIGHTS AND LOCATIONS WITH OWNER.



June 07, 2019 D. FARRIS checked by:

E-101





LOCKERS 113A LOCKERS 112A SECTIONS (UH-1) CE-1 4 K-24 K-22 K-20 1 45 Å/3 K-19 K-19 Φ **⊘** K-18 190A/3 120A/3 1K-44,46,48 0 K-16 MAU-1 C**L**OS 111 K-17 A-12 CAFETERIA 102 0 A-11,13 🖼 4 A-12 WP A-5 A-14

PANEL K 2

POWER & SPECIAL SYSTEMS PLAN

GENERAL NOTEPROVED

- A REFER TO SHEST E SOVISION ONLS COLD SE CONTROL ADDREVIATIONS.
- LOCATION AND TERMINATION OF TUREMENTS OF METANICAL DRAWINGS AND MECHANICAL CONTENT OF TUREMENT ALLATION OF CONDUIT AND CONDUCTORS.

 A printed copy of these plans shall be on the job site for all

CITY OF ALBUQUERQU PLANNING

- C CIRCUIT NUMBERS ARE SHOWN ADJACENT TO RECEPTACLES AND EQUIPMENT CONNECTIONS. FURNISH, INSTALL AND CONNECT THE QUANTITY OF CONDUCTORS D AS REQUIRED FOR THE RECEPTACLES AND EQUIPMENT CONNECTIONS ASSIGNED. USE THE NOTE BELOW TO DETERMINE CONDUCTOR SIZES FOR 20 AMP CIRCUITS UNLESS OTHERWISE NOTED.
- D FURNISH NO. 12 AWG WIRE SIZE WITH NO. 12 AWG GROUND IN 3/4" CONDUIT FOR CIRCUIT LENGTHS LESS THAN 75'-0". PROVIDE NO. 10 WIRE SIZE WITH NO. 10 AWG GROUND IN 3/4" FOR LENGTHS GREATER THAN 75'-0". ALL CONDUCTORS CONTRACTOR INSTALLED SHALL HAVE 90 DEGREE C RATED INSULATION.
- E. SPECIAL SYSTEM INSTALL SHALL PROVIDE NEW DEVISES COMPATIBLE WITH EXISTING SYSTEM, TEST EXISTING RELOCATED DEVICES AND VERIFY OPERATION OF THE COMPLETE SYSTEM.
- F. REFER TO RISER DIAGRAM AND PANEL SCHEDULES ON SHEET E-601.
- H CONTRACTOR SHALL PROVIDE AND INSTALL CONDUITS OF MINIMUM 3/4" SIZE AND 4"X4" J-BOXES FOR F.A. AND SECURITY SYSTEMS. CONTRACTOR TO COORDINATE CONDUIT ROUTING WITH OWNER.
- J THE SYSTEM LAYOUT SHOWS THE INTENT OF THE COVERAGE AND IS SHOWN IN SUGGESTED LOCATIONS. FINAL QUANTITY, LAYOUT AND COORDINATION IS THE RESPONSIBILITY OF THE CONTRACTOR. FOR ADDITIONAL REQUIREMENTS, SEE SPECIFICATIONS.
- K CONTRACTOR TO VERIFY REQUIREMENTS AND EXACT LOCATION FOR ALL ELECTRICAL CONNECTIONS NEEDED FOR KITCHEN HOOD AND FIRE SUPPRESSION EQUIPMENT AND PROVIDE SHUNT TRIP CIRCUIT BREAKERS FOR ELECTRICAL EQUIPMENT MOUNTED UNDER THE HOOD.

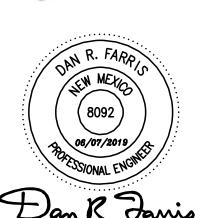
KEYED NOTES



- 1 ROOF MOUNTED EQUIPMENT. PROVIDE CONDUIT AND FEEDERS FOR POWER CONNECTIONS. SEE PANEL SCHEDULE FOR ON SHEET E-601 FOR SIZES AND RATINGS. PROVIDE NEMA 3R DISCONNECT SWITCHES AND WP GFCI CONVENIENCE OUTLETS. PROVIDE 3/4"CONDUIT FOR CONTROLS. COORDINATE WORK WITH MECHANICAL CONTRACTOR.
- 2 NEW ELECTRICAL PANELS. SEE SHEET E-601 FOR RATING, SCHEDULES AND CONDUIT SIZES.
- 3 JUNCTION BOX FOR FIRE ALARM CONTROL PANEL. COORDINATE REQUIREMENTS AND LOCATION WITH FIRE PROTECTION SYSTEM INSTALLER.
- 4 CONNECT TO LIGHTING CIRCUIT.
- 5 JUNCTION BOXES FOR OVERHEAD DOORS. CONTRACTOR TO VERIFY WITH OWNER ALL POWER AND MOUNTING REQUIREMENTS AND ADJUST ELECTRICAL PANEL.
- 6 DISCONNECT, SEE RISER DIAGRAM.

PLAN NORTH





June 07, 2019

E-201a ALTERNATE

SECTIONS K-22 K-20 K-13 Q K-15 **⊘** K-18 190A/3 20A/3 K-44,46,48 OHK-16 ₩P K-55 K-12,14 CLOS MAU-1 K-17 K-17**(**) A-12 CAFETERIA 102 A-11,13 🖼 4 A-16**Ø** ¥ A-16 **★**

PANEL K 2

B3) POWER & SPECIAL SYSTEMS PLAN

SCALE: 1" = 1'-0"

GENERAL NCTPPROVED

- A REFER TO SHEET E DIVISION LECTOR COLORS & DE MIT ON ADERT VIATIONS.
- B MECHANICAL EQUIPMENT MINE ARE 2019-2627. IT LOCATIONS. VERIFY LOCATION AND TERMINATION AND MECHANICAL CONTINATION OF CONDUIT AND CONDUCTORS.

 A printed copy of these plans shall be on the job site for all

CITY OF ALBUQUEROU
PLANNING

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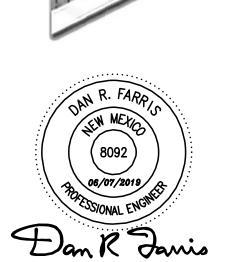
KEYED NOTES

- ES C
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- 3 JUNCTION BOX FOR FIRE ALARM CONTROL PANEL. COORDINATE REQUIREMENTS AND LOCATION WITH FIRE PROTECTION SYSTEM INSTALLER.
- 4 CONNECT TO LIGHTING CIRCUIT.

P**L**AN NORTH JUNCTION BOXES FOR OVERHEAD DOORS. CONTRACTOR TO VERIFY WITH OWNER ALL POWER AND MOUNTING REQUIREMENTS AND ADJUST ELECTRICAL PANEL.

ARCHITECTURAL GROUP, P

4477 Irving NW, Suit
Albuquerque, New Mexico 87



EW MULTI-PURPOS ST TERESA CATHOLIC SCHOOL

date: June 07, 2019
drawn by: D. PRYSAK
checked by: D. FARRIS
file name: 18074_E201
revisions:

E-201

PANE**L**BOARD PHASE BUSES SERVICE FEEDER MAIN BONDING JUMPER, NEC 250.28 EQUIP. BONDING JUMPER,— NEUTRAL - NEUTRAL BUS GROUND BUS COPPER SERVICE GROUNDING ELECTRODE CONDUCTOR, MINIMUM SIZE AS SHOWN ON - GROUND BUS GROUNDING ELECTRODE - INTERSYSTEM BONDING CONDUCTOR SCHEDULE TERMINATION (IBT), NEC BUILDING STEEL, 250.94 NEC 250.52(2) SLAB REBAR OR #4 UFER GROUND, NEC 250.52(3) 5/8" X 10' COPPER CLAD

SERVICE **ENTRANCE EQUIPMENT**

SERVICE GROUNDING SYSTEM GENERAL NOTES

- A. ALL CONDUCTORS USED FOR THE GROUNDING SYSTEM SHALL BE COPPER.
- B. CONNECT THE GROUNDING SYSTEM TO THE FOUR FOLLOWING COMPONENTS:
- BUILDING STEEL.
- METAL U.G. COLD WATER PIPE. CONCRETE ENCASED REBAR OR #4 COPPER UFER.

GROUND ROD

(SPACED 15' APART)

- 10' GROUND RODS.
- C. ANY SPLICING SHALL BE VIA CAD-WELD TYPE PROCESS.
- D. THE GROUNDING SYSTEM SHALL COMPLY WITH ALL REQUIREMENTS OF ARTICLE 250 OF THE 2014 NEC, AND SHALL PROVIDE 25 OHMS OR LESS RESISTANCE TO GROUND. PROVIDE TEST REPORT VERIFYING RESISTANCE LEVEL IS IN COMPLIANCE WITH 25 OHM MAXIMUM.

COLD WATER PIPE,

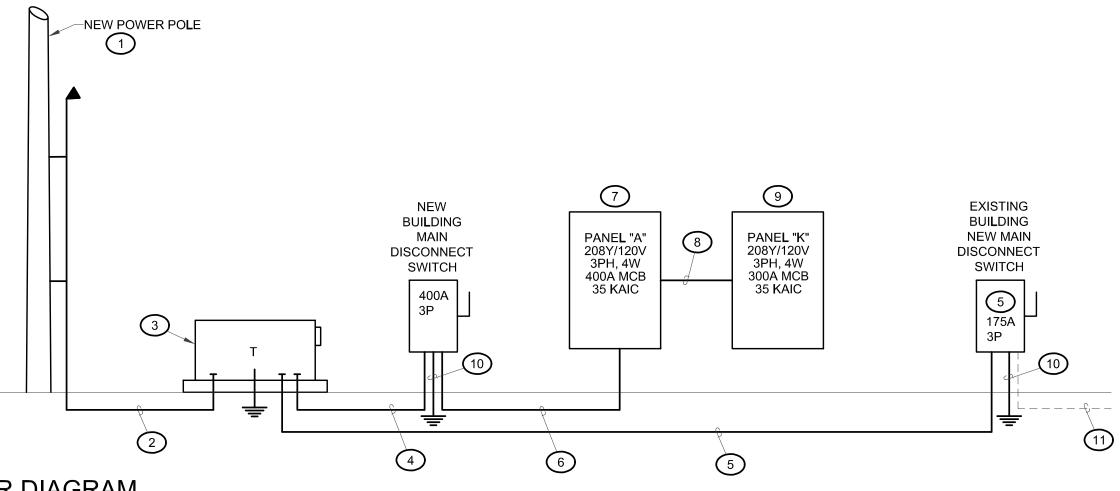
NEC 250.52(1)

GROUNDING ELECTRODE CONDUCTOR SCHEDULE

	SERVICE AMPACITY	CU WIRE BONDING BONDIN		EQUIPMENT BONDING JUMPER	METALLIC PIPE CONDUCTOR	BUILDING STEEL CONDUCTOR	REBAR OR UFER CONDUCTOR	CONDUCTO
	200A	#3/0	#4	#4	#4	#4	#4	
•	400A	500	#1/0	#1/0	#1/0	#1/0	#1/0	

SERVICE GROUNDING SYSTEM DIAGRAM

SCALE: NONE



RISER DIAGRAM

SCALE: NONE

PANEL			SERVICE : 208/120V, 3PH, 4W ACCESSORIES : NEUTRAL BAR, GROUND BAR MAINS RATING : 400 AMP										
LOCATION:		MAINS	OPTIONS:	400AT	/ 100AF I	MAIN CIR	CUIT BRI	EAKER					
DWG REF		INTERRUPTIN	G RATING	35,000	AIC								
DWG NO):		CABINET	SURF	ACE MOU	JNTED, N	EMA 1, D	OOR-IN	N-DOOR, 30	0 POLES			
CCT NO.	LOAD DESCRIPTION	CABLE SIZE	BKR SIZE	LOAD (KVA)		PHASE B	PHASE C	LOAD (KVA)		CABLE SIZE	LOAD DESCRIPTION	C(N	
1	LIGHTS OUTSIDE	(2)-#12#12G	20A/1P	1.00	26.3			25.33	300A/3P	(4)-350#4G	SUB PANEL K	2	
3	SPARE		20A/1P		***************************************	25.3		25.33	400AF	***	***	4	
5	RECEPT OUTSIDE GFCI WP	(2)-#12#12G	20A/1P	1.08		***************************************	26.4	25.33	***	***	***	ε	
7	J-BOX OVERHEAD DOOR	(3)-#12#12G	20A/2P	1.00	2.0			1.00	20A/1P	(2)-#12#12G	RECEPT FLOOR SALAD BAR	ε	
9	***	***	100AF	1.00		1.5		0.54	20A/1P	(2)-#12#12G	RECEPT NORTH WALL CAFETERIA	1	
11	J-BOX OVERHEAD DOOR	(3)-#12#12G	20A/2P	1.00			1.9	0.90	20A/1P	(2)-#12#12G	RECEPT EAST WALL CAFETERIA	1	
13	***	www	100AF	1.00	1.9			0.90	20A/1P	(2)-#12#12G	RECEPT WEST WALL CAFETERIA	1	
15	J-BOX DOOR OPERATOR	(2)-#12#12G	20A/1P	1.00		1.7		0.72	20A/1P	(2)-#12#12G	RECEPT SOUTH WALL, ENTRY	1	
17	SPARE	***************************************	20A/1P	***************************************			0.0	***************************************	20A/1P	***************************************	SPARE	1:	
19	SPARE		20A/1P		0.0				20A/1P		SPARE	2	
21	SPARE		20A/1P			0.0			20A/1P		SPARE	2	
23	SPARE		20A/1P				1.0	1.00	20A/1P	(2)-#12#12G	J-BOX FAN	2	
25	SOLAR SYSTEM		200A/3P		1.0			1.00	20A/1P	(2)-#12#12G	LIGHTING CAFETERIA	2	
27	SPARE	***	225AF			1.0		1.00	20A/1P	(2)-#12#12G	LIGHTING CAFETERIA	2	
29	SPARE	***	20A/1P	0.00			1.0	1.00	20A/1P	(2)-#12#12G	FIRE ALARM CONTROL PANEL	3	
•			•						NOTE:	·····			
					31.2 KVA	29.6 LL VOLTS	30.3 AMPS						
					91.1	208	253				Section and Areas is	18 F1411, 817	
					2.8%	-2.6%	-0.2%	PHASE	UNBALANC	F			
					260.1	246.4		PHASE		-			

	PANEL K 2 SECTIONS	MAIN	SERVICE IS RATING			4W			NEUTRAL BAR, GROUND BAR			
1.00	ATION: RM 106	11	OPTIONS			MAIN CIR	CUIT BRE	AKER				
	WG REF:	INTERRUPTIN					JOH DIKE					
[DWG NO:	-				JNTED, N	EMA 1, D	OOR-II	N-DOOR, 8	4 POLES		
CCT NO.	LOAD DESCRIPTION	CABLE SIZE	BKR SIZE	LOAD (KVA)	PHASE A	PHASE B	PHASE C	LOAD (KVA)	BKR SIZE	CABLE SIZE	LOAD DESCRIPTION	CCT NO
1	LIGHTING OUTSIDE	(2)-#12#12G	20A/1P	1.00	2.3			1.26	20A/2P	(3)-#12#12G	ITEM # 4 GARBAGE DISPOSER	2
3	LIGHTING	(2)-#12#12G	20A/1P	1.60		2.9		1.26	100AF	***	***	4
5	LIGHTING	(2)-#12#12G	20A/1P	1.60			5.0	3.44	45A/2P	(3)-#8#10G	ITEM #8 UNDERCOUNTER DISHWASHER	6
7	SPARE		20A/1P		3.4			3.44	100AF	***	***	8
9	SPARE		20A/1P	***************************************	***************************************	1.0		1.00	20A/1P	(2)-#12#12G	ITEM #32 PLANETARY MIXER	10
11	RECEPT GFCI RESTROOMS	(2)-#12#12G	20A/1P	0.36		, ,	1.5	1.13	20A/2P	(3)-#12#12G	ITEM #27 SERVING COUNTER HOT FOOD	12
13	HAND DRYER RR112	(2)-#12#12G	20A/1P	1.00	2.1			1.13	100AF	***	***	14
15	HAND DRYER RR113	(2)-#12#12G	20A/1P	1.00		2.2		1.20	20A/1P	(2)-#12#12G	ITEM #24 REACH IN FREEZER	16
17	RECEPT 109,110, 111	(2)-#12#12G	20A/1P	0.90	1		1.6	0.70	20A/1P	(2)-#12#12G	ITEM #23 REACH IN REFRIGERATOR	18
19	RECEPT GFCI RR108, JAN	(2)-#12#12G	20A/1P	0.54	2.1			1.55	20A/1P	(2)-#12#12G	ITEM #22 MICROWAVE OVEN	20
21	RECEPT MECH/ELEC 106	(2)-#12#12G	20A/1P	0.36		1.1		0.75	20A/1P	(2)-#12#12G	ITEM #21 FOOD BLENDER	22
23	SPARE		20A/1P				0.2	0.18	20A/1P	(2)-#12#12G	RECEPT	24
25	SPARE		20A/1P		0.5			0.54	20A/1P	(2)-#12#12G	RECEPTPANTRY 104	26
27	SPARE		20A/1P			0.0			20A/1P		SPARE	28
29	SPARE		20A/1P				0.0		20A/1P		SPARE	30
31	ITEM #2A FUTURE WALK-IN COOLER EVAPORATOR	(4)-#12#12G	20A/3P	0.33	0.3				20A/1P		SPARE	32
33	***	***	100AF	0.33		0.3			20A/1P		SPARE	34
35	***	***	***	0.33			0.3		20A/1P	(2)-#10#12G	KH-1 SUPPRESSION SYSTEM	36
37	ITEM #2B FUTURE WALK-IN COOLER CONDENSER	(4)-#12	20A/3P	1.00	2.0			1.00	20A/1P	(2)-#12#12G	KH-1 KITCHEN HOOD LIGHTS	38
39	***	***	100AF	1.00		2.0		1.00	20A/2P	(3)-#12#12G	KH-1 KITCHEN HOOD CONTROL PNL - SHUNT TRIP	40
41	***	***	***	1.00			1.0		100AF	***	***	42
43	RTU-1	(4)-#8#10G	45A/3P	3.73	4.6			0.90	20A/3P	(4)-#12#12G	MUA-1	44
45	***	***	100AF	3.73		4.6		0.90	100AF	***	***	46
47	***	***	***	3.73			4.6	0.90	***	***	***	48
49	RTU-2	(4)-#3#8G	90A/3P	8.33	9.1			0.73	20A/3P	(4)-#12#12G	KEF-1 EXHAUST FAN	50
51	***	***	100AF	8.33		9.1		0.73	100AF	***	***	52
53	***	***	***	8.33			9.1	0.73	***	***	***	54
55	RECEPT GFCI WP ROOF RTU1 & 2, MUA, KEF	(2)-#12#12G	20A/1P	0.72	0.9			0.20	20A/1P	SEE PLAN	EF-1 FAN RESTROOMS	56
57	SPARE		20A/1P			0.9		0.90	20A/2P	SEE PLAN	UH-1	58
59	SPARE		20A/1P				0.9	0.90	100AF	***	***	60
61	SPARE		20A/1P		0.0				20A/1P		SPARE	62
63	SPARE		20A/1P			0.0			20A/1P		SPARE	64
65	SPARE		20A/1P				0.0		20A/1P		SPARE	66
67	SPARE		20A/1P		0.0				20A/1P		SPARE	68
69	SPARE		20A/1P	ļ		0.0			20A/1P		SPARE	70
71	SPACE						0.0		***************************************		SPACE	72
73	SPACE				0.0				************		SPACE	74
75	SPACE					0.0					SPACE	76
77	SPACE					-	0.0				SPACE	78
79	SPACE				0.0						SPACE	80
81	SPACE					0.0					SPACE	82
83	SPACE				<u> </u>		0.0				SPACE	84
					27.4	24.1	24.2		NOTE:			
					KVA	LL VOLTS	AMPS	1				
					75.7	208	210				Caller Laponines vac	Faces, 5 F - F 11

8.5% -4.5% -4.0% PHASE UNBALANCE 228.2 200.7 201.8 PHASE AMPS

GENERAL NOTPPROVED

A CONTRACTOR TO COC REMONSTER LIVING FIRST TO THE AND SOLAR SYSTEM violations of any code or ordinance of this city. INSTA**LL**ER.

CITY OF ALBUQUERQU PLANNING

KEYED NOT purited appy of these plans shall be on the lob site for all

- 1 NEW POWER POLE AND RISER PER PNM.
- 2 PROVIDE TRENCHING AND CONDUIT FOR PRIMARY FEEDERS FROM PNM POWER POLE TO NEW PAD MOUNTED TRANSFORMER.
- 3 PROVIDE MOUNTING PAD PER PNM REQUIREMENTS. NEW TRANSFORMER WITH CT/METER, SIZE PER PNM.
- 4 PROVIDE TRENCHING, CONDUIT AND FEEDERS (2 SETS OD 4X#350 KCMIL CU IN 2 1/2" CONDUIT) FROM TRANSFORMER TO NEW BUILDING DISCONNECT SWITCH.
- 5 PROVIDE TRENCHING, CONDUIT AND FEEDERS TO EXISTING BUILDING, 4X#3/0 CU AND 1X#4 CU IN 2" CONDUIT. CONTRACTOR TO VERIFY SIZE AND RATING OF THE EXISTING DISCONNECT SWITCH AND REPLACE WITH NEW. CONTRACTOR TO VERIFY EXISTING BUILDING GROUNDING AND UPGRADE TO 2017 NEC REQUIREMENTS AS REQUIRED.
- 6 PROVIDE CONDUIT AND FEEDERS (2 SETS OF 4X#3/0 CU AND 1X#4 CU IN 2" CONDUIT) FROM BUILDING DISCONNECT TO PANEL A.
- 7 NEW PANEL A. SEE PANEL SCHEDULE AND RATING THIS SHEET

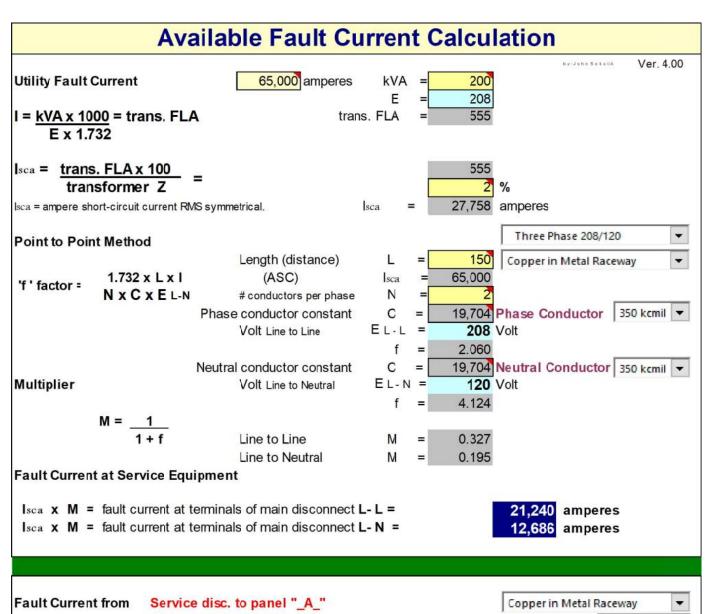
PROVIDE CONDUIT AND FEEDERS (2 SETS OF (3X#3/0 CU, 1X#3/0 CU EMT CONDUIT) AND 1X#2 CU GND) TO SUB PANEL K. 9 NEW PANEL K. REFER TO ARCHITECTURAL DRAWINGS FOR FOR KITCHEN EQUIPMENT CONNECTING REQUIREMENTS.

10 INSTALL GROUNDS PER DETAIL ON THIS SHEET (TYP.).

12,844 Neutral Conductor 3/0

9,544 amperes

11 RECONNECT EXISTING BUILDING FEEDERS.



Length (distance)

conductors per phase Phase conductor constant Volt Line to Line

Volt Line to Neutral E L - N =

Calculation does not include motor contribution

M = 0.752

Neutral conductor constant

Line to Line

Line to Neutral

Three Phase Feeder

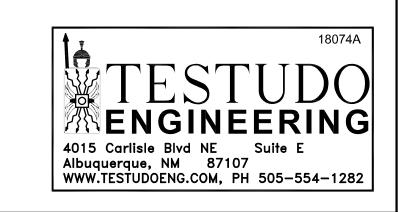
M = 1

1 + f

Isca x M = fault current at terminals of the panel L- L = Isca x M = fault current at terminals of the panel L- N =

N x C x E L-N

'f ' factor =





August 15, 2019 D. PRYSAK checked by: D. FARRIS file name:

ALTERNATE

SERVICE **ENTRANCE EQUIPMENT** PANE**L**BOARD PHASE BUSES SERVICE FEEDER MAIN BONDING JUMPER, NEC 250.28 EQUIP. BONDING JUMPER,— NEUTRAL - NEUTRAL BUS GROUND BUS COPPER SERVICE GROUNDING ELECTRODE CONDUCTOR, MINIMUM SIZE AS SHOWN ON - GROUND BUS GROUNDING ELECTRODE - INTERSYSTEM BONDING CONDUCTOR SCHEDULE TERMINATION (IBT), NEC BUILDING STEEL, 250.94 NEC 250.52(2)

SLAB REBAR OR

COLD WATER PIPE,

NEC 250.52(1)

#4 UFER GROUND, NEC 250.52(3)

SERVICE GROUNDING SYSTEM GENERAL NOTES

- A. ALL CONDUCTORS USED FOR THE GROUNDING SYSTEM SHALL BE COPPER.
- B. CONNECT THE GROUNDING SYSTEM TO THE FOUR FOLLOWING COMPONENTS:
- BUILDING STEEL.
- METAL U.G. COLD WATER PIPE.

5/8" X 10'

COPPER CLAD

GROUND ROD

(SPACED 15' APART)

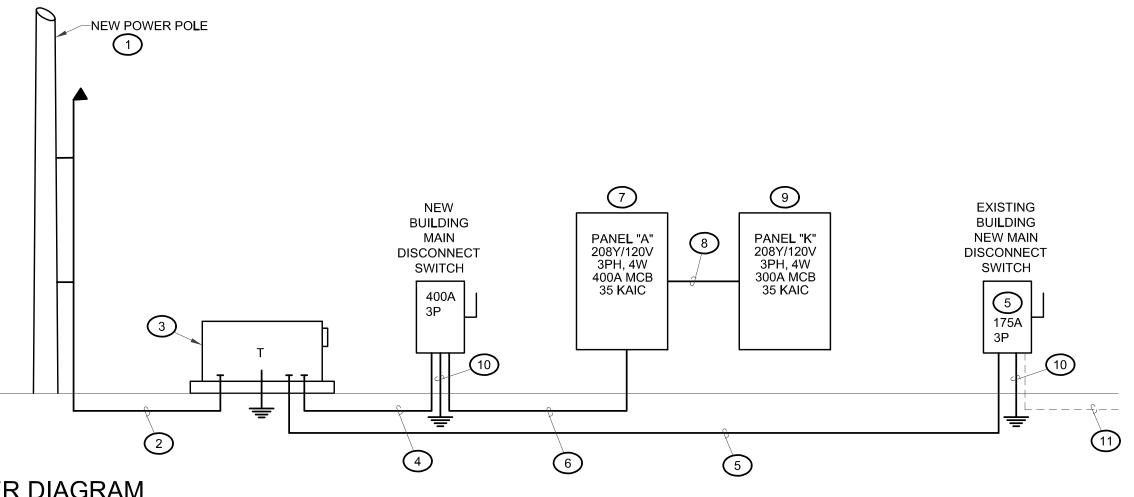
- CONCRETE ENCASED REBAR OR #4 COPPER UFER. 10' GROUND RODS.
- C. ANY SPLICING SHALL BE VIA CAD-WELD TYPE PROCESS.
- D. THE GROUNDING SYSTEM SHALL COMPLY WITH ALL REQUIREMENTS OF ARTICLE 250 OF THE 2014 NEC, AND SHALL PROVIDE 25 OHMS OR LESS RESISTANCE TO GROUND. PROVIDE TEST REPORT VERIFYING RESISTANCE LEVEL IS IN COMPLIANCE WITH 25 OHM MAXIMUM.

GROUNDING ELECTRODE CONDUCTOR SCHEDULE

SERVICE AMPACITY	EQUIV. CU WIRE SIZE	MAIN BONDING JUMPER	EQUIPMENT BONDING JUMPER	METALLIC PIPE CONDUCTOR	BUILDING STEEL CONDUCTOR	REBAR OR UFER CONDUCTOR	CONDUCTO		
200A	#3/0	#4	#4	#4	#4	#4			
400A	500	#1/0	#1/0	#1/0	#1/0	#1/0			

SERVICE GROUNDING SYSTEM DIAGRAM

SCALE: NONE



RISER DIAGRAM

SCALE: NONE

PA	NEL :A		1	SERVICE :			4W			A	ACCESSORIES:	NEUTRAL BAR, GROUND BAR	
	A		MAIN	S RATING :	400 AN	/IP							
LOCATI	ON:	$\mid N \mid$	MAINS	OPTIONS :	400AT	/ 100AF I	VAIN CIR	CUITBRE	EAKER				
DWG			INTERRUPTIN	G RATING :	22,000	AIC							
DWG	G NO :			CABINET:	SURF	ACE MOL	JNTED, N	EMA1, D	00R-IN	N-DOOR, 3	0 POLES		
CT	LOAD		CABLE	BKR		l	PHASE	Į.			CABLE	LOAD	C
10.	DESCRIPTION		SIZE	SIZE	(KVA)	A	В	С	(KVA)	SIZE	SIZE	DESCRIPTION	1
1	LIGHTS OUTSIDE	***	(2)-#12#12G	20A/1P	1.00	26.3			25.33	300A/3P	(4)-350#4G	SUB PANEL K	
3	SPARE			20A/1P			25.3		25.33	400AF	***	***	
5	RECEPT OUTSIDE GFCI WP		(2)-#12#12G	20A/1P	1.08			26.4	25.33	***	***	***	
7	J-BOX OVERHEAD DOOR		(3)-#12#12G	20A/2P	1.00	2.0			1.00	20A/1P	(2)-#12#12G	RECEPT FLOOR SALAD BAR	
9	***		***	100AF	1.00		1.5		0.54	20A/1P	(2)-#12#12G	RECEPT NORTH WALL CAFETERIA	
11	J-BOX OVERHEAD DOOR		(3)-#12#12G	20A/2P	1.00			1.9	0.90	20A/1P	(2)-#12#12G	RECEPT EAST WALL CAFETERIA	
13	***		***	100AF	1.00	1.9			0.90	20A/1P	(2)-#12#12G	RECEPT WEST WALL CAFETERIA	
15	J-BOX DOOR OPERATOR		(2)-#12#12G	20A/1P	1.00		1.7		0.72	20A/1P	(2)-#12#12G	RECEPT SOUTH WALL, ENTRY	1
17	SPARE			20A/1P				0.0		20A/1P		SPARE	
19	SPARE	alle that a fine to a think in the contract and the first fine contract of		20A/1P		0.0				20A/1P	A CONTROL OF A CON	SPARE	
21	SPARE		and the second s	20A/1P			0.0			20A/1P		SPARE	13
23	SPARE			20A/1P				1.0	1.00	20A/1P	(2)-#12#12G	J-BOX FAN	
25	SOLAR SYSTEM			200A/3P		1.0			1.00	20A/1P	(2)-#12#12G	LIGHTING CAFETERIA	1
27	SPARE		***	225AF			1.0		1.00	20A/1P	(2)-#12#12G	LIGHTING CAFETERIA	
29	SPARE		***	20A/1P	0.00			1.0	1.00	20A/1P	(2)-#12#12G	FIRE ALARM CONTROL PANEL	
										NOTE :			
						31.2	29.6	30.3	ļ				
						KVA	LL VOLTS	1					
						91.1	208	253				Sether Engineering SE	D. Panes

2.8%	-2.6%	-0.2%	PHASE UNBALANCE
260.1	246.4	252.4	PHASE AMPS

	PANEL K 2 SECTIONS		SERVICE :			4W			A	ACCESSORIES :	NEUTRAL BAR, GROUND BAR	
			S RATING : OPTIONS :			MAIN CIR		EVKED				
	ATION: RM 106 NG REF:	INTERRUPTIN					SON DIVE					
[DWG NO :		CABINET:			INTED, N	EMA 1, D	OOR-IN	N-DOOR, 84	4 POLES		
CCT NO.	LOAD DESCRIPTION	CABLE SIZE	BKR SIZE	LOAD (KVA)	PHASE A	PHASE B	PHASE C	LOAD (KVA)	BKR SIZE	CABLE SIZE	LOAD DESCRIPTION	CCT NO
1	LIGHTING OUTSIDE	(2)-#12#12G	20A/1P	1.00	2.3			1.26	20A/2P	(3)-#12#12G	ITEM #4 GARBAGE DISPOSER	2
3	LIGHTING	(2)-#12#12G	20A/1P	1.60		2.9		1.26	100AF	***	***	4
5	LIGHTING	(2)-#12#12G	20A/1P	1.60			5.0	3.44	45A/2P	(3) -# 8#10G	ITEM #8 UNDERCOUNTER DISHWASHER	6
7	SPARE	entre de la company de la comp	20A/1P		3.4		ere man men menere service	3.44	100AF	***	***	8
9	SPARE		20A/1P		province construction	1.0		1.00	20A/1P	(2)-#12#12G	ITEM #32 PLANETARY MIXER	10
11	RECEPT GFCI RESTROOMS	(2)-#12#12G	20A/1P	0.36			1.5	1.13	20A/2P	(3)-#12#12G	ITEM #27 SERVING COUNTER HOT FOOD	12
13	HAND DRYER RR112	(2)-#12#12G	20A/1P	1.00	2.1			1.13	100AF	***	***	14
15	HAND DRYER RR113	(2)-#12#12G	20A/1P	1.00		2.2		1.20	20A/1P	(2)-#12#12G	ITEM #24 REACH IN FREEZER	16
17	RECEPT 109,110, 111	(2)-#12#12G	20A/1P	0.90			1.6	0.70	20A/1P	(2)-#12#12G	ITEM #23 REACH IN REFRIGERATOR	18
19	RECEPT GFCI RR108, JAN	(2)-#12#12G	20A/1P	0.54	2.1			1.55	20A/1P	(2)-#12#12G	ITEM #22 MICROWAVE OVEN	20
21	RECEPT MECH/ELEC 106	(2) -# 12#12G	20A/1P	0.36		1.1		0.75	20A/1P	(2)-#12#12G	ITEM #21 FOOD BLENDER	22
23	SPARE		20A/1P				0.2	0.18	20A/1P	(2)-#12#12G	RECEPT	24
25	SPARE		20A/1P		0.5			0.54	20A/1P	(2)-#12#12G	RECEPTPANTRY 104	26
27	SPARE		20A/1P			0.0			20A/1P		SPARE	28
29	SPARE		20A/1P				0.0		20A/1P		SPARE	30
31	ITEM #2A FUTURE WALK-IN COOLER EVAPORATOR	(4)#12#12G	20A/3P	0.33	0.3				20A/1P	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	SPARE	32
33	***	***	100AF	0.33		0.3			20A/1P	***	SPARE	34
35	***	***	***	0.33			0.3		20A/1P	(2)-#10#12G	KH-1 SUPPRESSION SYSTEM	36
37	ITEM #2B FUTURE WALK-IN COOLER CONDENSER	(4)-#12	20A/3P	1.00	2.0	00 1000 MONOR OF BUILDING		1.00	20A/1P	(2) -# 12#12G	KH-1 KITCHEN HOOD LIGHTS	38
39	***	***	100AF	1.00		2.0	The trees of the orthograph and the s	1.00	20A/2P	(3)-#12#12G	KH-1 KITCHEN HOOD CONTROL PNL - SHUNT TRIP	40
41	***	***	***	1.00			1.0		100AF	***	***	42
43	RTU-1	(4)-#8#10G	45A/3P	3.73	4.6			0.90	20A/3P	(4)-#12#12G	MUA-1	44
45	***	***	100AF	3.73		4.6		0.90	100AF	***	***	46
47	***	***	***	3.73			4.6	0.90	***	***	***	48
49	RTU-2	(4)-#3#8G	90A/3P	8.33	9.1			0.73	20A/3P	(4)-#12#12G	KEF-1 EXHAUST FAN	50
51	***	***	100AF	8.33		9.1		0.73	100AF	***	***	52
53	***	***	***	8.33			9.1	0.73	***	***	***	54
55	RECEPT GFCI WP ROOF RTU1 & 2, MUA, KEF	(2)#12#12G	20A/1P	0.72	0.9			0.20	20A/1P		EF-1 FAN RESTROOMS	56
57	SPARE		20A/1P			0.9		0.90	20A/2P	***	UH-1	58
59	SPARE		20A/1P				0.9	0.90	100AF	***		60
61	SPARE	***************************************	20A/1P		0.0				20A/1P		SPARE	62
63 65	SPARE SPARE		20A/1P			0.0	0.0		20A/1P 20A/1P		SPARE SPARE	64 66
67	SPARE		20A/1P 20A/1P		0.0		0.0		20A/1P		SPARE	68
69	SPARE		20A/1P		U.U	0.0			20A/1P	en en er norr hanne valer in naver er norri er norri en norri	SPARE	70
71	SPACE		20/7/11	ļ		0.0	0.0		20/0 11	~~~	SPACE	72
73	SPACE				0.0		2.3				SPACE	74
75	SPACE					0.0			d 411 - 00 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 1		SPACE	76
77	SPACE			ļ			0.0				SPACE	78
79	SPACE			l	0.0						SPACE	80
81	SPACE					0.0					SPACE	82
83	SPACE			 			0.0				SPACE	84
		-I	1	1					NOTE:	<u> </u>		
					27.4 KVA	24.1 LL VOLTS	24.2 AMPS					
					75.7	208	210				Select Engineering LLC 7	ianel_Ee zi 1

8.5% -4.5% -4.0% PHASE UNBALANCE 228.2 200.7 201.8 PHASE AMPS

GENERAL NOTEPROVED

A CONTRACTOR TO COC REMONSTER LIVING FIRST TO THE AND SOLAR SYSTEM violations of any code or ordinance of this city. INSTA**LL**ER.

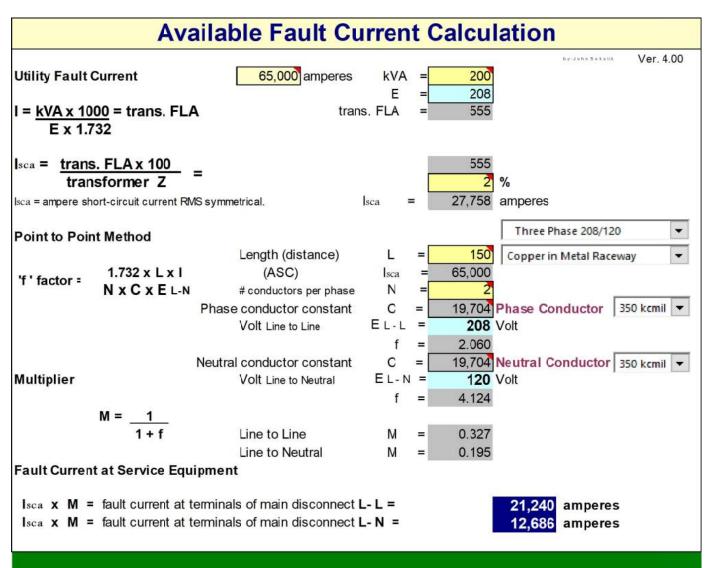
CITY OF ALBUQUERQU PLANNING

KEYED NOT printed sopy of these plans shall be on the job site for all

- 1 NEW POWER POLE AND RISER PER PNM.
- 2 PROVIDE TRENCHING AND CONDUIT FOR PRIMARY FEEDERS FROM PNM POWER POLE TO NEW PAD MOUNTED TRANSFORMER.
- 3 PROVIDE MOUNTING PAD PER PNM REQUIREMENTS. NEW TRANSFORMER WITH CT/METER, SIZE PER PNM.
- 4 PROVIDE TRENCHING, CONDUIT AND FEEDERS (2 SETS OD 4X#350 KCMIL CU IN 2 1/2" CONDUIT) FROM TRANSFORMER TO NEW BUILDING DISCONNECT SWITCH.
- 5 PROVIDE TRENCHING, CONDUIT AND FEEDERS TO EXISTING BUILDING, 4X#3/0 CU AND 1X#4 CU IN 2" CONDUIT. CONTRACTOR TO VERIFY SIZE AND RATING OF THE EXISTING DISCONNECT SWITCH AND REPLACE WITH NEW. CONTRACTOR TO VERIFY EXISTING BUILDING GROUNDING AND UPGRADE TO 2017 NEC REQUIREMENTS AS REQUIRED.
- 6 PROVIDE CONDUIT AND FEEDERS (2 SETS OF 4X#3/0 CU AND 1X#4 CU IN 2" CONDUIT) FROM BUILDING DISCONNECT TO PANEL A.
- 7 NEW PANEL A. SEE PANEL SCHEDULE AND RATING THIS SHEET

PROVIDE CONDUIT AND FEEDERS (2 SETS OF (3X#3/0 CU, 1X#3/0 CU NEUTRAL IN EMT CONDUIT) AND 1X#2 CU GND) TO SUB PANEL K. 9 NEW PANEL K. REFER TO ARCHITECTURAL DRAWINGS FOR FOR KITCHEN EQUIPMENT CONNECTING REQUIREMENTS.

- 10 INSTALL GROUNDS PER DETAIL ON THIS SHEET (TYP.).
- 11 RECONNECT EXISTING BUILDING FEEDERS.



ault Curren	t from Servic	e disc. to panel "_A_"			Copper in Metal Raceway	*
1944			920	i	Three Phase	•
Three	Phase Feeder		L	=[
'f ' factor =	1.732 x L x I	(ASC)	sca	=	= 21,240 Phase 12,686 Neutral	
i lactor -	N x C x E L-N	# conductors per phase	N	=	= <u> </u>	
		Phase conductor constant	C	=	12,844 Phase Conductor 3/0	•
		Volt Line to Line	EL-L	=	208 Volt	
			f	=	0.275	
		Neutral conductor constant	C	= [12,844 Neutral Conductor 3/0	•
		Volt Line to Neutral	EL-N	=	120 Volt	
Multiplier			f	=	0.329	
	M =1_	Line to Line	М	=	0.784	
	1 + f	Line to Neutral	M	=	0.752	
Isca x M =	fault current at	terminals of the panel L- L =			16,654 amperes	
Isca x M =	fault current at	terminals of the panel L- N =			9,544 amperes	
Г		Calculation does not inclu	ide moto	or o	contribution	

4015 Carlisle Blvd NE Suite E Albuquerque, NM 87107 WWW.TESTUDOENG.COM, PH 505—554—1282



August 15, 2019 D. PRYSAK D. FARRIS checked by:

E-601