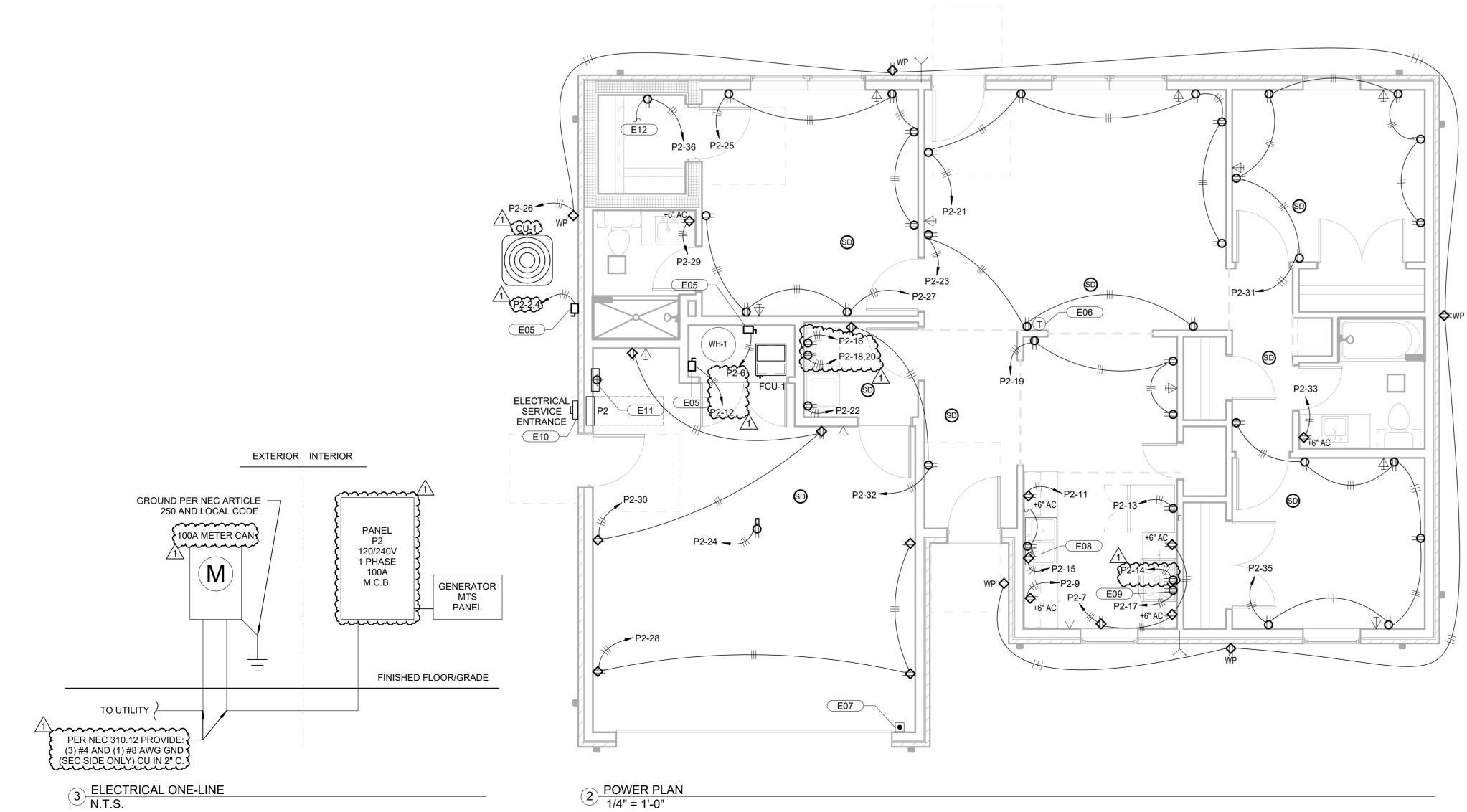
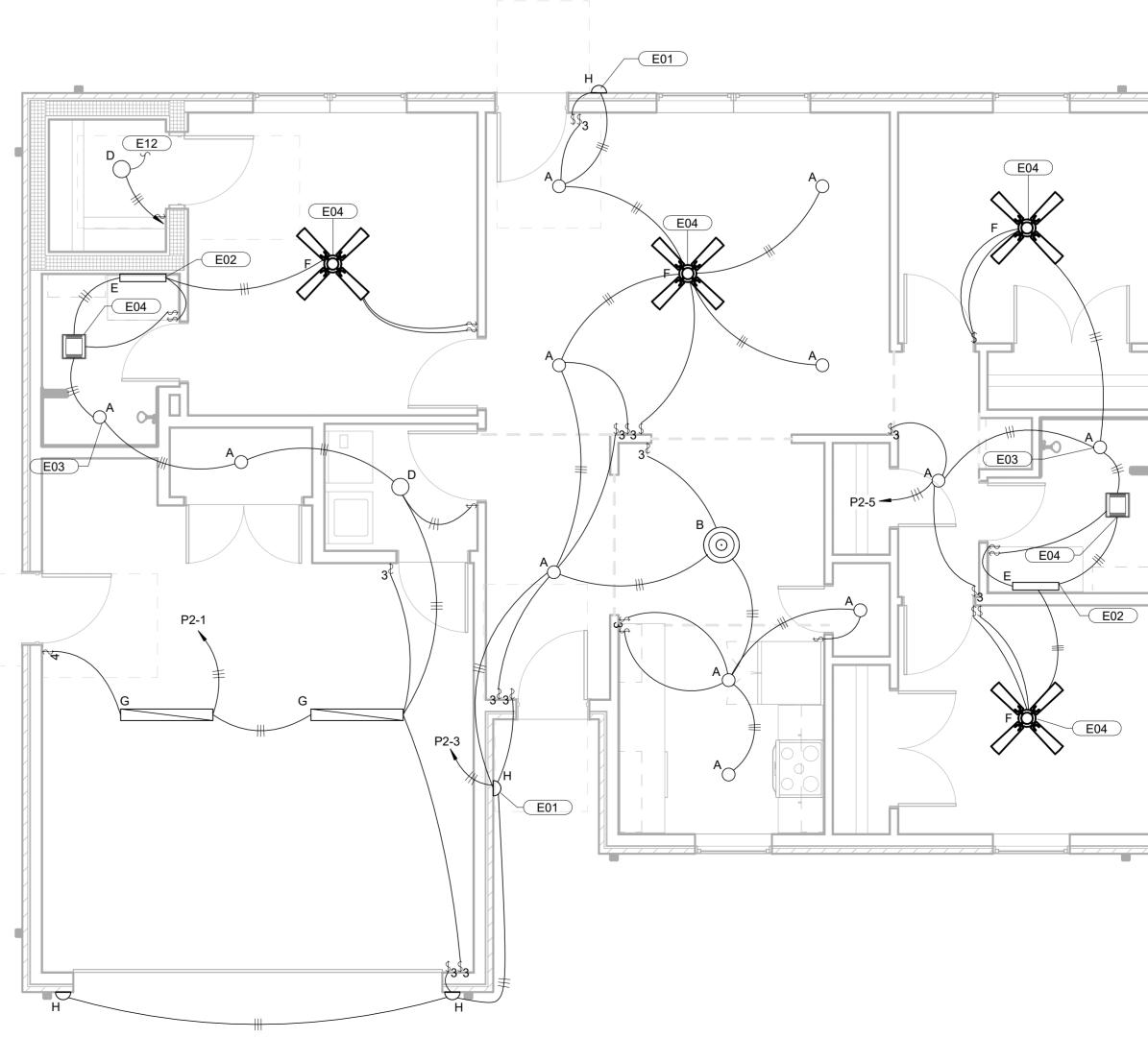
<b>P2</b>						P	ANEL	BOAF	RD				120/240 Single, 1	PH, 3W M.C.B.		PAI	NELBOARD NOTES (#):
														(8) AIC		1.	TERMINATE GROUND ON ISOLATED GROUND BUS.
														RFACE		2.	PROVIDE LOCKING DEVICE (LOCK-OFF FOR MAINTENANCE).
SERVES: HOUSE LOCATION: GARAGE											EQUIPMENT GROUN	ND BUS		3.	PROVIDE LOCKING DEVICE (LOCK-ON FOR CRITICAL LOAD).		
																4.	PROVIDE GFCI BREAKER (PERSONNEL PROTECTION 5 mA).
							_		_								
		DESCRIPTION	WIRE	BRKR	PL		Α	E	В	PL	BRKF	WIRE	DESCRIPTION		$\hat{\Lambda}$	5.	PROVIDE GFCI BREAKER (EQUIPMENT PROTECTION 30 mA).
1	LIGHTIN	G GARAGE / MASTER (6)	12	20 A	1	0.89	2.87			2	25 A	10	CU-1	$\int_{2}^{2}$	1	6.	PROVIDE COMBINATION ARC FAULT CIRCUIT BREAKERS WHERE INDICATED NEC 210.12(A).
3		ITNG LIVING AREA (6)	12	20 A	1			0.71	2.87					4		_	
5			12	20 A	1	1.27	1.50	0.54		1	15 A	12	GAS FURNACE (6)			7.	CONDUCTOR SIZE HAS BEEN INCREADED TO ACCOUNT FOR VOLTAGE DROF SIZE GROUNDING CONDUCTOR PROPORTIONALLY PER NEC.
7		CEPTS KITCHEN (6) F KITCHEN COUNTER (6)	12 12	20 A 20 A	1	1.50		0.54		1			SPACE SPACE	<b>(</b> 8 <b>(</b> 10 <b>(</b>		0	
11		KITCHEN COUNTER (6)	12	20 A	1	1.00		1.50	0.10	1	20 A	12	GAS WATER HEATER (6)	12		8.	COORDINATE PANELBOARD AIC RATING WITH UTILITY.
13		EFRIGERATOR (6)	12	20 A	1	1.08	0.18			1	20 A	12	GAS RANGE (6)	<b>{</b> 14		9.	REFERENCE ONE-LINE DIAGRAM FOR WIRE SIZE/QUANTITY.
15		ASHER / DISPOSAL (6)	12	20 A	1	4.00	0.50	1.20	1.20	1	20 A	12	GAS DRYER (6)	<u>} 16</u>			
17 I 19		IOOD OR MICROWAVE (6) PTS DINING ROOM (6)	) 12 12	20 A 20 A	1	1.20	2.50	0.54	2.50	2	30 A	10	FUTURE ELEC DRYER	<b>(</b> 18 <b>)</b>		ſ	TYPICAL MOUNTING HEIGHTS
21		PTS LIVING ROOM (6)	12	20 A	1	0.90	1.50		2.00	1	20 A	12	WASHER (6)	20 22			TTPICAL MOUNTING HEIGHTS
23		PTS LIVING ROOM (6)	12	20 A	1			0.54	1.20	1	20 A	12	GARAGE DOOR OPENER (6)	24		ľ	ALL HEIGHTS ARE FROM FINISHED FLOOR TO THE CENTERLINE OF THE
25 27		PTS MASTER BDRM (6) PTS MASTER BDRM (6)	12 12	20 A 20 A	1	0.72	0.90	0.54	0.54	1	20 A 20 A	12 12	RECEPTS EXTERIOR (6) RECEPTS GARAGE (6)	26 28			DEVICE UNLESS NOTED OTHERWISE. DEVICES ABOVE A COUNTERTOP
29		EPT MASTER BATH (6)	12	20 A 20 A	1	0.18	0.54	0.54	0.54	1	20 A		RECEPTS GARAGE (6)	30			SHALL BE MOUNTED 4" ABOVE THE BACKSPLASH TO THE CENTERLINE.
31		EPTS BEDROOM 2 (6)	12	20 A	1			1.08	0.36	1	20 A	12	RECEPTS HALL / LAUNDRY (6)	32			RECEPTACLES +18" TELEPHONE JACKS +48"
33		EPT BATHROOM (6)	12	20 A	1	0.18	0.08			1	20 A	12	SMOKE DETECTORS (6)	34			DATA JACKS +18"
35 37	RECE	EPTS BEDROOM 3 (6) SPACE	12	20 A	1		0.00	1.08	0.21	1	20 A 20 A	12	MASTER CLOSET (6) SPARE (6)	36 38			SWITCHES +44"
39		SPACE			1		0.00			1	20 A		SPARE (6) SPACE	40		$\Lambda$	
41		SPACE			1					1			SPACE	42		Ī	RESIDENTIAL LOAD CALCULATION }
					ŀ		.98 0.07		5.70	KVA						{ -	3
			ιστα	L CONNE	CIED	14	9.87	139	9.15	AMF	-5		SEE RESIDENTIAL LOAD CALCS			Ş	PANELBOARD VOLTAGE = 240 V
																{	DWELLING UNIT AREA = 1173 SQFT
ΓΥΡΕ Α	QTY 12	MANUFACTURER ELITE	С	ATALO( 7-1200L	G NU	MBER TR-120		URE DLT WA 20V 16 V	TT LA	MP ED	6" RE		DESCRIPTION CAN LIGHT, DAMP LOCAT WH	ION			WASHER (ASSUMED)=1500 VADRYER (MINIMUM)=5000 VAREFRIGERATOR (ASSUMED)=1080 VAVENT HOOD / MICROWAVE (ASSUMED)=1200 VADISHWASHER / DISPOSAL (ASSUMED)=1200 VAGAS RANGE (ASSUMED)=240 VA
В	1	GOLDEN	HOM	ESTEAD CHAN	D 4 L	IGHT M	INI 12	20V 48 V	VA LI	ED	DECC	DECORATIVE DINING ROOM LIGHT, PROVIDE 100 EQV E26 3000K LED BULBS				ž	GAS WATER HEATER (ASSUMED) = 100 VA SUBTOTAL = 16839 VA
D	2	COMMERCIAL	9IN 12	20W EQ FLUSH	•		OM 12	20V 32 V	VA LI	ED	9" DO	)" DOME LIGHT				ξ	FIRST 10KVA AT 100% = 10000 VA REMAINDER AT 40% = 2736 VA
Е	2	VOGUE		WS-312	27-30	000K		20V 39 V				NITY LIG				ξ	CONDENSING UNIT / HEAT PUMP = 5736 VA
F	4	EELP		GF7-19I				20V 480			ARCH	IITECTU		2 W/		È	GAS FURNACE (0%) = 1500 VA HVAC LOAD PER NEC 220.82(C) = 5736 VA
G	2	ELITE	4-OEC	-LED-50	)00L- 85	DIM10-4		20V 37 V		ED	4' GAI	4' GARAGE LIGHT				Ş	TOTAL FEEDER LOAD PER NEC 220.85 = 18472 VA = 77 A
Н	4	HAMPTON	WICK	KFORD LAN	1-LIC		LL 12	20V 16 V	VA LI			WALL MOUNTED PORCH LIGHT, PROVIDE 100W EQV E26 4000K LED BULB				رد ر	
J	2	BROAN		6	679		12	20V 240	VA LI	I		BATHROOM EXHAUST FAN W/ LIGHT - REF MECHANICAL					ELECTRICAL KEYNOTES
																	E01REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT.E02MOUNT FIXTURE HORIZONTALLY AND CENTER ABOVE VANITY MIRROR.
																	E03 SEAL FIXTURE TO CEILING WITH WEATHERPROOF SILICONE PER MANUFACTURERS INSTRUCTION. PROVIDE SHOWER LENS AND TRIM FOR FIXTURE.
																	E04       WHERE POSSIBLE, SWITCH INTEGRAL LIGHT AND FAN         SEPERATELY.         E05       DISCONNECT SWITCH SIZED PER MANUFACTURERS MOCP RATING
																-	(MAXIMUM OVER-CURRENT PROTECTION).           E06         PROVIDE CONNECTION OF THERMOSTAT TO FCU USING 18/7
																-	THERMOSTAT WIRING. COORDINATE WITH MECHANICAL CONTRACTOR FOR FINAL LOCATION PRIOR TO ROUGH-IN.E07LOCATION OF PUSHBUTTON CONTROLS FOR GARAGE DOOR
																-	OPENER. E08 DISHWASHER RECEPTACLE TO BE GFCI TYPE. GARBAGE DISPOSAL SWITCH FOR STANDARD RECEPTACLE SHALL BE
																-	INTALLED AFTER DISHWASHER RECEPTACLE TO ENSURE SWITCH OPERATION DOES NOT CONFLICT WITH GFCI FUNCTIONALITY.
																	E09 RECEPTACLE FOR RANGE HOOD OR OVER THE RANGE MICROWAVE SHALL BE INTALLED IN CABINETRY OVER RANGE. COORDINATE ROUTING OF CORD THROUGH MILLWORK IN FIELD.
																-	E10       COORDINATE METER CAN LOCATION AND REQUIREMENTS WITH UTILITY PRIOR TO SITE WORK OR ROUGH-IN.         E11       TRANSFER CENTER WITH MANUAL TRANSFER SWITCH
																	CONTAINING A MINIMUM OF TWO BREAKERS. GENERATOR TWIST LOCK RECEPTACLE LOCATED BELOW. E12 CONNECT LIGHT AND RECEPTACLE IN HARDENED SPACE ON A
																	DEDICATED CIRCUIT TO BE ROUTED THROUGH TRANSFER CENTER PRIOR TO LANDING ON ELECTRICAL PANEL.

			LIGHTING FIX	TUF	RE S	CHE	EDULE
TYPE	QTY	MANUFACTURER	CATALOG NUMBER	VOLT	WATT	LAMP	DESCRIPTION
A	12	ELITE	REL637-1200L-DIMTR-120-30K -90-WH	120V	16 VA	LED	6" RECESSED CAN LIGHT, DAMP LOCATION RATED, RT-CL-WH
В	1	GOLDEN	HOMESTEAD 4 LIGHT MINI CHANDELIER	120V	48 VA	LED	DECORATIVE DINING ROOM LIGHT, PROVIDE 100 EQV E26 3000K LED BULBS
D	2	COMMERCIAL	9IN 120W EQU MUSHROOM FLUSH MOUNT	120V	32 VA	LED	9" DOME LIGHT
E	2	VOGUE	WS-3127-3000K	120V	39 VA	LED	3' VANITY LIGHT
F	4	EELP	CGF7-19L-120V-30K	120V	480 VA	LED	CEILING FAN W/ LIGHT - VEIRIFY COLOR W/ ARCHITECTURAL
G	2	ELITE	4-OEC-LED-5000L-DIM10-40K- 85	120V	37 VA	LED	4' GARAGE LIGHT
Н	4	HAMPTON	WICKFORD 1-LIGHT WALL LANTERN	120V	16 VA	LED	WALL MOUNTED PORCH LIGHT, PROVIDE 100W EQV E26 4000K LED BULB
J	2	BROAN	679	120V	240 VA	LED	BATHROOM EXHAUST FAN W/ LIGHT - REF MECHANICAL



## 1 <u>LIGHTING PLAN</u> 1/4" = 1'-0"



# 7. PROVIDE TWO COPIES OF OPERATION AND MAINTENANCE MANUALS FOR ALL LIGHT FIXTURES AND LIGHT CONTROLS.

PROVIDE ALL POWER CIRCUITS, WIRING, CONDUIT, OUTLETS, DISCONNECT SWITCHES, ETC., AND PROVIDE FINAL ELECTRICAL

4. THE USE OF EXTENSION CORDS OR POWER STRIPS AS PERMANENT WIRING TO EQUIPMENT, LIGHTING, FANS, ETC. IS PROHIBITED.

6. ALL DEVICES LOCATED WITHIN CLOSE PROXIMITY TO ONE ANOTHER SHALL BE COVERED BY A SINGLE FACE PLATE WHENEVER

7. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITHT THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE (NEC), AND ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES. WHERE CONFLICTS ARISE, THE MOST STRINGENT

5. ALL ELECTRICAL DEVICE AND COVER PLATE COLORS TO BE COORDINATED WITH ARCHTIECTURAL FINISH PLANS.

ALLOWED. ALL PERMIT AND INSPECTION FEES SHALL BE INCLUDED IN BASE BID.

DRAWINGS FOR EXACT LOCATIONS OF MECHANICAL AND PLUMBING EQUIPMENT.

3. PROVIDE A IN-GROUND PULL BOX EVERY 200' FOR ALL UNDERGROUND CONDUIT RUNS.

PROVIDE A GROUNDING CONDUCTOR FOR ALL CIRCUITS IN ACCORDANCE WITH N.E.C. ARTICLE 250. VERIFY EXACT CONNECTIONS

ALL ELECTRICAL WIRING SHALL BE IN COMPLIANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE.

BIDDERS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS TO FULLY UNDERSTAND THE NATURE

EXAMINATION HAS BEEN PERFORMED AND THAT COMPLIANCE WITH ALL GOVERNING CODES/REQUIREMENTS IS INCLUDED IN BID.

LATER CLAIMS FOR LABOR, EQUIPMENT, MATERIALS REQUIRED, OR FORESEEABLE DIFFICULTIES ENCOUNTERED SHALL NOT BE

1. PROTECT ALL ADJACENT SURFACES DURING CONSTRUCTION. ANY SURFACES DAMAGED SHALL BE REPAIRED BY THE CONTRACTOR

CONTRACTOR SHALL COORDINATE INSTALLATION OF ELECTRICAL SYSTEMS WITH OTHER TRADES. SEE MECHANICAL AND PLUMBING

WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHER WISE

5. WIRING SHALL INCLUDE FINAL CONNECTIONS TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.

8. PROVIDE APPROPRIATE HANDLE TIES FOR TWO SINGLE POLE CIRCUIT BREAKERS AS REQUIRED WHEN USING MULTI-WIRE BRANCH

6. CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PANELBOARD IDENTIFICATION SCHEDULES UPON COMPLETION.

7. WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUITS AND DE-RATE CURRENT CARRYING CONDUCTORS PER NEC.

ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY. REFERENCE TYPICAL MOUNTING HEIGHT SCHEDULE

AND SCOPE OF THE WORK PRIOR TO SUBMITTING A BID. THE SUBMISSION OF A BID IS CONSIDERED EVIDENCE THAT SUCH

GENERAL NOTES:

POSSIBLE.

GENERAL POWER NOTES:

FOR MOUNTING HEIGHTS.

2

3

8

2.

4.

1. NOT ALL SYMBOLS MAY APPLY TO ALL SHEETS.

CONNECTIONS TO ALL EQUIPMENT.

REQUIREMENTS SHALL TAKE PRECEDENCE.

AT NO ADDITIONAL COST TO THE OWNER.

REQUIRED FOR ALL EQUIPMENT PRIOR TO ROUGH--IN.

PROVIDE DRY WALL/PLASTER KIT FOR FIXTURES MOUNTED ON GYPBOARD PER CEILING PLAN.	
IGHT FIXTURES SHALL BE SUPPORTED IN ACCORDANCE WITH NEC ARTICLE 300; SPECIFICALLY PARAGRAPH 300.11(A).	
COORDINATE EXACT FIXTURE LOCATIONS WITH STRUCTURE, DIFFUSERS, ETC.	

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THE LOCATION OF DUCTS, PIPE AND EQUIPMENT AS SHOWN ON THE DRAWINGS IS DIAGRAMMATIC AND SCHEMATIC. IT IS THE RESPONSIBILITY OF OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES BEFORE INSTALLATION. LIGHT FIXTURE OCATIONS SUPERSEDE HVAC DUCTWORK, GRILLES AND DIFFUSERS. OFFSET TO AVOID STRUCTURE AND/OR ANY OTHER PIPING.

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8.	PROVIDE APPROPRIATE HANDLE TIES FOR TWO SINGLE POLE CIRCUIT BREAKERS AS REQUIRED WHEN USING MULTI-WIRE BRANCH CIRCUITS PER NEC ARTICLE 210.4 PART (B).	$\bigcirc$	LIGHT FIXTURE, CEILING MOUNTED		
9.	PROVIDE BLANK FILLERS FOR ALL UNUSED SPACES IN PANELBOARDS WHERE FACTORY KNOCKOUTS HAVE BEEN REMOVED.	$\frown$			
10.	FEEDERS SHALL CONFORM TO NEC 215.2. BRANCH CIRCUITS AND VOLTAGE DROP REQUIREMENTS SHALL CONFORM TO NEC 210.19(A).	О	LIGHT FIXTURE, WALL MOUNTED		
11.	ONLY FEEDER CIRCUITS SPECIFICALLY NOTED AS UNDERGROUND ON THE ONE-LINE DIAGRAM AND BRANCH CIRCUITS NOTED BY LEGEND SHALL BE INSTALLED UNDER SLAB. ALL OTHER FEEDER AND BRANCH CIRCUITS SHALL BE INSTALLED OVERHEAD WHERE		CIRCUIT, CONCEALED IN WALLS OR CEILING		
	POSSIBLE. ALL SITE CONDUITS SHALL BE INSTALL AT A MINIMUM OF 24" UNDER FINISHED GRADE.		CIRCUIT, CONCEALED IN SLAB		
12.	HOME RUNS ARE SHOWN SEPARATELY TO PRESERVE DRAWING CLARITY. COMBINE HOME RUNS SERVING LIGHTING AND WIRING DEVICES AS ALLOWED BY THE NEC.				
13.	NO EXPOSED CONDUIT OR WIRING IN FINISHED SPACES SHALL BE ALLOWED WITHOUT WRITTEN PERMISSION FROM ARCHITECT/ENGINEER.	$\bigtriangledown$	TELEPHONE		
		▼	DATA		
GEN	IERAL LIGHTING NOTES::				
1.	PROVIDE ALL ACCESSORIES REQUIRED FOR FUNCTIONAL ELECTRICAL INSTALLATION AND SUPPORT.	$\overline{\nabla}$	DATA AND COAXIAL CONNECTION UNDER SINGLE FACE PLATE		
2.	PROVIDE DRY WALL/PLASTER KIT FOR FIXTURES MOUNTED ON GYPBOARD PER CEILING PLAN.	(SD)	SMOKE / CARBON MONOXIDE		
3.	LIGHT FIXTURES SHALL BE SUPPORTED IN ACCORDANCE WITH NEC ARTICLE 300; SPECIFICALLY PARAGRAPH 300.11(A).	GD	DETECTOR		
4.	COORDINATE EXACT FIXTURE LOCATIONS WITH STRUCTURE, DIFFUSERS, ETC.	ABBREVIATIONS: AFF ABOVE FINIS	SHED FLOOR		
5.	THE LOCATION OF DUCTS, PIPE AND EQUIPMENT AS SHOWN ON THE DRAWINGS IS DIAGRAMMATIC AND SCHEMATIC. IT IS THE RESPONSIBILITY OF OF THE CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES BEFORE INSTALLATION. LIGHT FIXTURE LOCATIONS SUPERSEDE HVAC DUCTWORK, GRILLES AND DIFFUSERS. OFFSET TO AVOID STRUCTURE AND/OR ANY OTHER PIPING.	WP WEATHER P AFCI ARC FAULT	ROOF CIRCUIT INTERUPTING AULT CIRCUIT INTERRUPTING		
6.	REFER TO LIGHT FIXTURE SCHEDULE FOR ALL LIGHT FIXTURES THAT ARE IC RATED. ALL RECESSED FIXTURES SHALL ADHERE TO ARTICLE 410.116 OF THE NATIONAL ELECTRICAL CODE (NEC).	TR TAMPER RESISTANT CF CEILING FAN			

EC -- ELECTRICAL CONTRACTOR

FCU -- FAN COIL UNIT (INDOOR) HP -- HEAT PUMP (OUTDOOR)

UNO -- UNLESS OTHERWISE NOTED

EF -- EXHAUST FAN NTS -- NOT TO SCALE

WH -- WATER HEATER

ELEUI	RICAL LEG
(NOT A	ALL SYMBOLS MAY BE USED
SYMBOL	DESCRIPTION
J	JUNCTION BOX

Φ

 $\Diamond$ 

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 $\Box$ 

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\$4

ELECTRICAL LE	EGE

RECEPTACLE, 120V DUPLEX

RECEPTACLE, 240V SIMPLEX

PANELBOARD

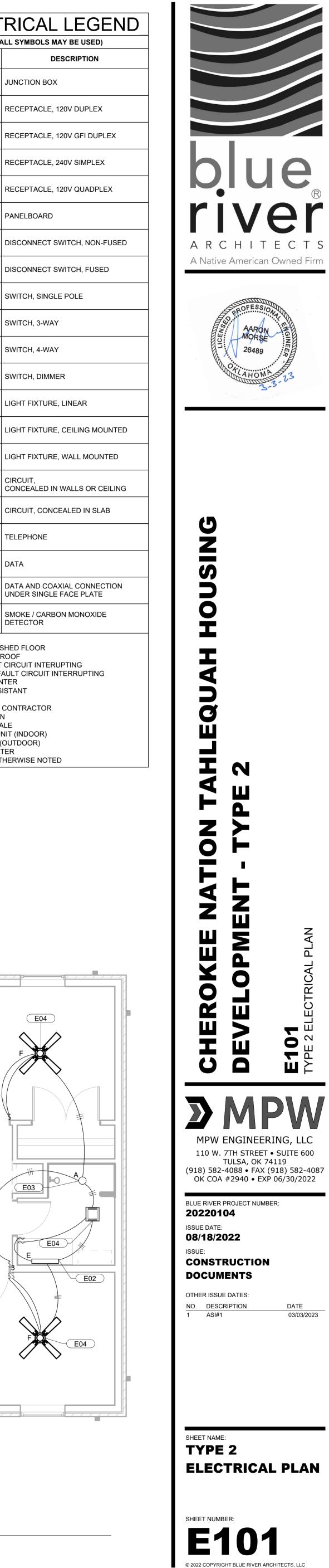
SWITCH, SINGLE POLE

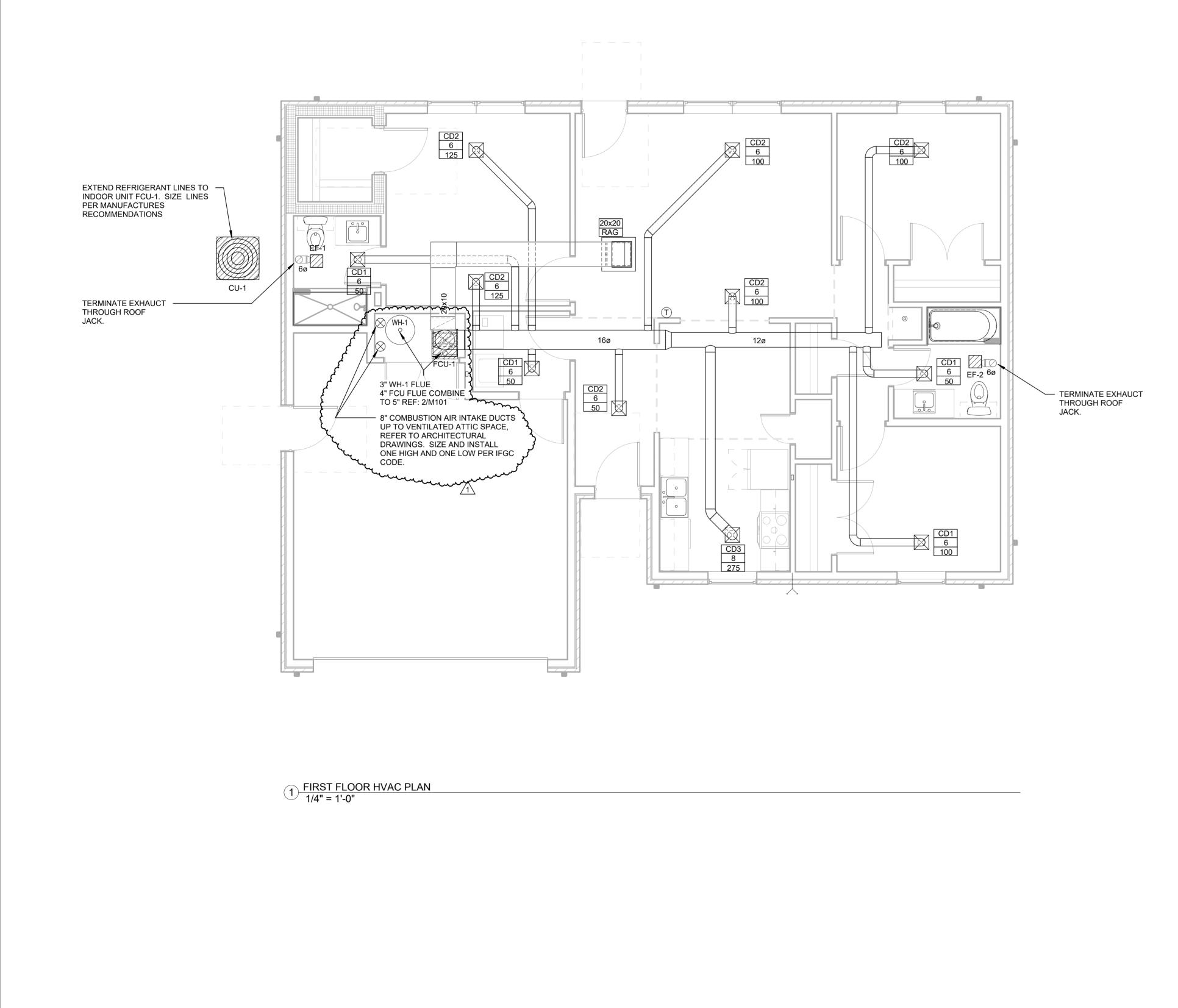
SWITCH, 3-WAY

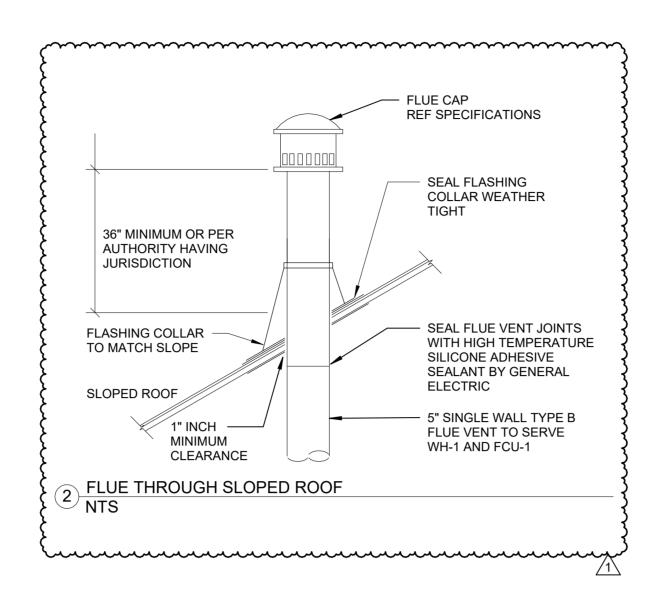
SWITCH, 4-WAY

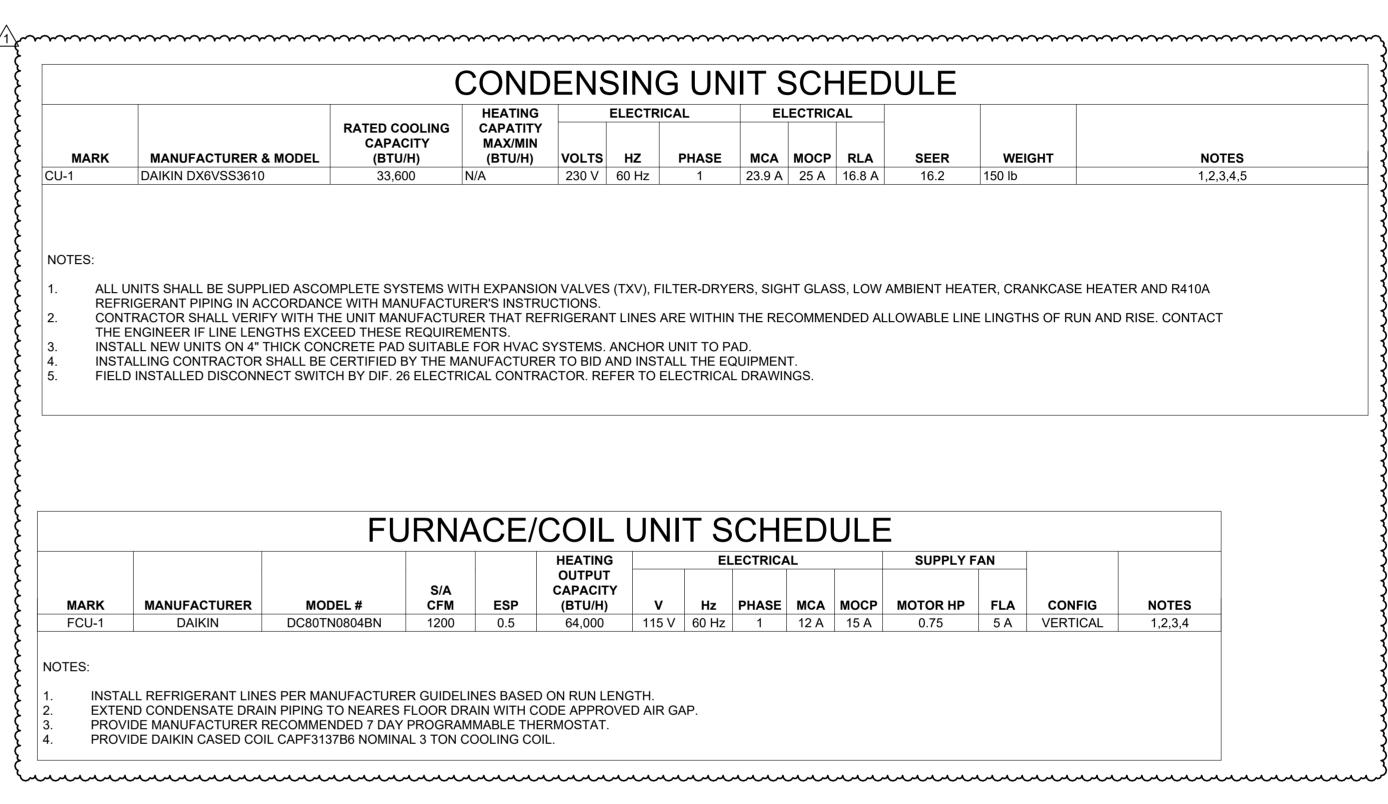
SWITCH, DIMMER

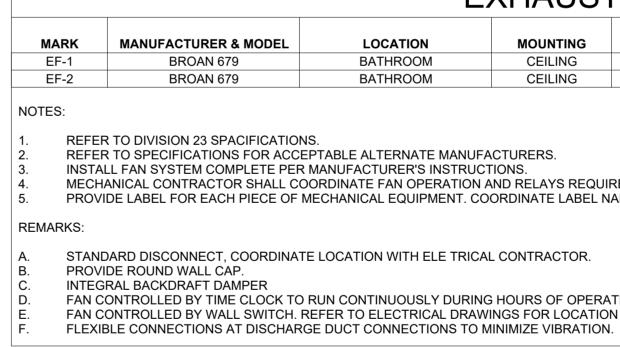
LIGHT FIXTURE, LINEAR











MARK	MANUFACTURER & MODEL#	
CD1	TITUS TMS	
CD2	TITUS TMS	
CD3	TITUS TMS	
RAG	TITUS 350RLF1	
2. NOT AL 3. FOR SU DEVICE 4. WHERE 5. COORD 6. FINAL F 7. ACCEP	L GRILLE AND DIFFUSERS SHO IRFACE MOUNTED LAY-IN TYPE MOUNTING STYLE. BACK PAN OF DIFFUSER IS EX INATE LOCATION OF GRILLES, INISH OF ALL AIR DEVICES SHA TABLE ALTERNATE MANUFACTU	F
	CD1 CD2 CD3 RAG NOTES: . COORD 2. NOT AL 3. FOR SU DEVICE 4. WHERE 5. COORD 5. FINAL F 7. ACCEP	CD1       TITUS TMS         CD2       TITUS TMS         CD3       TITUS TMS         RAG       TITUS 350RLF1         NOTES:       Image: Coordinate frame trye with ceiling         NOTALL GRILLE AND DIFFUSERS SHOW       FOR SURFACE MOUNTED LAY-IN TYPE         DEVICE MOUNTING STYLE.       Image: Coordinate Location of GRILLES, Show         Image: Coordinate Location of GRILLES, Show       Image: Coordinate Location of GRILLES, Show         Image: Coordinate Location of ALL AIR DEVICES SHAW       Image: Coordinate Location of GRILLES, Show         Image: Coordinate Location of ALL AIR DEVICES SHAW       Image: Coordinate Location of Coordinate Location Coordinate Location of Coordinate Location Coordinate

	CONDENSING UNIT SCHEDULE											
		RATED COOLING	HEATING         ELECTRICAL         ELECTRICAL           COOLING         CAPATITY         Image: Capatity         Image: Capatity									
RK	MANUFACTURER & MODEL	CAPACITY (BTU/H)	MAX/MIN (BTU/H)	VOLTS	HZ	PHASE	МСА	моср	RLA	SEER	WEIGHT	NOTES
	DAIKIN DX6VSS3610	33,600	N/A	230 V	60 Hz	1	23.9 A	25 A	16.8 A	16.2	150 lb	1,2,3,4,5
	2	22,000		200 1	00112	•	20.071	2077				1,2,0,1,0

ALL UNITS SHALL BE SUPPLIED ASCOMPLETE SYSTEMS WITH EXPANSION VALVES (TXV), FILTER-DRYERS, SIGHT GLASS, LOW AMBIENT HEATER, CRANKCASE HEATER AND R410A REFRIGERANT PIPING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. CONTRACTOR SHALL VERIFY WITH THE UNIT MANUFACTURER THAT REFRIGERANT LINES ARE WITHIN THE RECOMMENDED ALLOWABLE LINE LINGTHS OF RUN AND RISE. CONTACT THE ENGINEER IF LINE LENGTHS EXCEED THESE REQUIREMENTS. INSTALL NEW UNITS ON 4" THICK CONCRETE PAD SUITABLE FOR HVAC SYSTEMS. ANCHOR UNIT TO PAD. INSTALLING CONTRACTOR SHALL BE CERTIFIED BY THE MANUFACTURER TO BID AND INSTALL THE EQUIPMENT. FIELD INSTALLED DISCONNECT SWITCH BY DIF. 26 ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL DRAWINGS.

					HEATING	HEATING	ELECTRICAL			SUPPLY FAN				
¢	MANUFACTURER	MODEL #	S/A CFM	ESP	OUTPUT CAPACITY (BTU/H)	v	Hz	PHASE	МСА	моср	MOTOR HP	FLA	CONFIG	NOTES
	DAIKIN	DC80TN0804BN	1200	0.5	64,000	115 V	60 Hz	1	12 A	15 A	0.75	5 A	VERTICAL	1,2,3,4

### EXHAUST FAN SCHEDULE

							ELECTRICAL						
<	MANUFACTURER & MODEL	LOCATION	MOUNTING	CFM	ESP	SONES	V	Р	Hz	WATTS	SPEEDS	REMAR	
	BROAN 679	BATHROOM	CEILING	70	0.1	3.5	120 V	1	60 Hz	240 W	1	A, B,C	
	BROAN 679	BATHROOM	CEILING	70	0.1	3.5	120 V	1	60 Hz	240 W	1	A, B,C	

REFER TO DIVISION 23 SPACIFICATIONS. REFER TO SPECIFICATIONS FOR ACCEPTABLE ALTERNATE MANUFACTURERS.

INSTALL FAN SYSTEM COMPLETE PER MANUFACTURER'S INSTRUCTIONS. MECHANICAL CONTRACTOR SHALL COORDINATE FAN OPERATION AND RELAYS REQUIRED WITH THE ELECTRICAL WORK. PROVIDE LABEL FOR EACH PIECE OF MECHANICAL EQUIPMENT. COORDINATE LABEL NAMING CONVENTION WITH OWNER.

STANDARD DISCONNECT, COORDINATE LOCATION WITH ELE TRICAL CONTRACTOR. PROVIDE ROUND WALL CAP.

INTEGRAL BACKDRAFT DAMPER FAN CONTROLLED BY TIME CLOCK TO RUN CONTINUOUSLY DURING HOURS OF OPERATION. REFER TO ELECTRICAL DRAWINGS. FAN CONTROLLED BY WALL SWITCH. REFER TO ELECTRICAL DRAWINGS FOR LOCATION BY BAR. PROVIDE LABEL FOR SWITCH ON SWITCH PLATE.

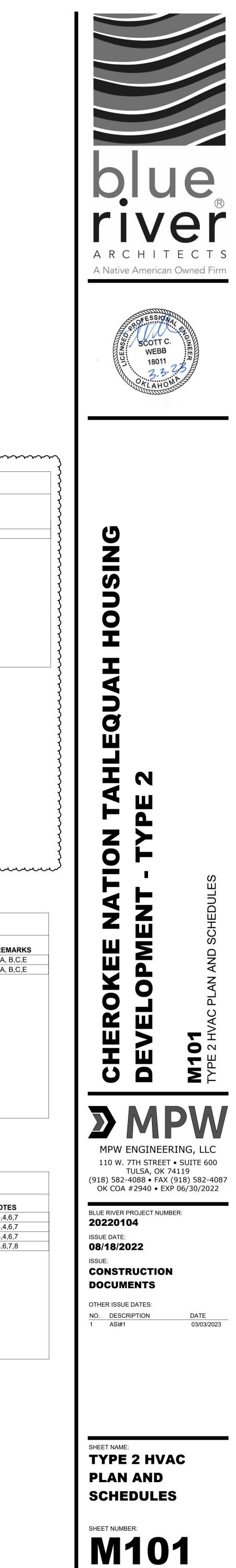
### AIR DEVICE SCHEDULE

					MOUNTING			NOISE	NUMBER OF			
ĸĸ	MANUFACTURER & MODEL#	SERVICE	MATERIAL	FACE TYPE	LOCATION	FACE SIZE	NECKSIZE	CRITERIA (NC)	SLOTS	SLOT INCHES	NOTES	
1	TITUS TMS	SUPPLY AIR	ALUMINUM	ROUND NECK	SURFACE	12"X12"	6	25			1,3,4,6,7	
2	TITUS TMS	SUPPLY AIR	STEEL	ROUND NECK	SURFACE	12"X12"	6	25			1,3,4,6,7	
3	TITUS TMS	SUPPLY AIR	STEEL	ROUND NECK	SURFACE	12"X12"	8	25			1,3,4,6,7	
G	TITUS 350RLF1	RETURN AIR	STEEL	SQUARE NECK	SURFACE	24X24	20	25			1,3,6,7,8	

COORDINATE FRAME TPYE WITH CEILING MATERIALS. DUCT MOUNT WHERE SPIRAL DUCTWORK EXPOSED. NOT ALL GRILLE AND DIFFUSERS SHOWN ARE NECESSARILY USED, REFER TO HVAC PLAN FOR LOCATION AND QUANTITY.

FOR SURFACE MOUNTED LAY-IN TYPE DIFFUSERS OR GRILLES PROVIDE TRIM RINGS. REFER TO ARCHITECTURAL DRAWINGS AND COORDINATE CEILING TYPES WITH AIR DEVICE MOUNTING STYLE. WHERE BACK PAN OF DIFFUSER IS EXPOSED TO NON-CONDITIONED ATTIC TYPE SPACES, PROVIDE FACTORY R-6 FOIL BACKED INSULATION TO MINIMIZE CONDENSATION.

OORDINATE LOCATION OF GRILLES, REGISTERS AND DIFFUSERS WITH CEILING GRID, LIGHT LOCATIONS, STRUCTURAL MEMBERS AND ARCHITECTURAL FEATURES. INAL FINISH OF ALL AIR DEVICES SHALL BE VERIFIED WITH ARCHITECT'S FINISH AND PAINTING SCHEDULE. ACCEPTABLE ALTERNATE MANUFACTURERS: HART & COOLEY, TRUAIRE, ANEMOSTAT, AND METALAIRE.



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ND FITTINGS		ABBREVIA	DOMESTIC WATER GE				
GATE VALVE	ΑΑ	AIR	к	KW	KILOWATT	1. CUTOFF VALVES A SHOWN ON DRAWING	
GLOBE VALVE	ABV ACCU	ABOVE AIR COOLED CONDENSING UNIT	L	LAB	LABORATORY	2. TEST ALL WATER S	
ANGLE GATE VALVE	ACL	ACETYLENE GAS AIR CONDITIONING UNIT		LAT LAV	LEAVING AIR TEMPERATURE LAVATORY	REPRESENTATIVE AT WASTES, AND VENTS	SHALL BE TESTE
SOLENOID VALVE	AD AF	ACCESS DOOR AIR FILTER		LB LD	POUND LINEAR DIFFUSER	WATER FOR 8 HOURS UNCHANGED.	S WITH LEVEL OF V
NON SLAM CHECK VALVE	AFF	ABOVE FINISHED FLOOR AIR FILTER, HIGH EFFICIENCY		LDB LF	LEAVING DRY BULB LINEAR FEET	3. INSTALL ALL EQUIF	PMENT AND MATE
BUTTERFLY VALVE	AHU APD	AIR HANDLING UNIT AIR PRESSURE DROP		LFD LP	LAMINAR FLOW DIFFUSER LIQUID PROPANE	ACCORDANCE WITH N RECOMMENDATIONS	
PLUG VALVE	AR ASSY	ACID RESISTANT ASSEMBLY		L/S LWB	LITERS PER SECOND LEAVING WET BULB	4. INSTALL ALL WATE	R PIPING SYSTEM
BALL VALVE	AUX AV	AUXILIARY AUTOMATIC AIR VENT		LWT	LEAVING WATER TEMPERATURE	NOT BE SUBJECT TO PROVISIONS SHALL B	
TWO WAY CONTROL VALVE	B BDD	BACKDRAFT DAMPER	М	MAU MAX	MAKE-UP AIR UNIT MAXIMUM	CONTRACTION AND S	
PRESSURE REGULATOR	BHP BP	BRAKE HORSE POWER BACKFLOW PREVENTER		MB MBH	MIXING BOX/MOP BASIN THOUSAND BTU/HR	5. ALL PENETRATION FLOOR CEILING ASSE	
	BS	BIRD SCREEN		MD MECH	MOTORIZED DAMPER MECHANICAL	SEALED TO MAINTAIN ASSEMBLIES, MATER	I FIRE RATING WIT
THREE WAY CONTROL VALVE	C C C/L	CONDENSATE CENTER LINE		MIN MM MS	MINUTE/MINIMUM MILLIMETERS MOTOR STARTER	6. BELOW GROUND P	
PRESSURE REDUCING VALVE	CD CFM	CEILING DIFFUSER CUBIC FEET PER MINUTE	N	N	NITROGEN	THAN 6" BELOW FROM DETAILS FOR FOUND	ST LINE. REFER TO
BUTTERFLY VALVE	CH CHDR	CHILLER CHEMICAL DRAIN		NC NG	NORMALLY CLOSED NATURAL GAS	7. DRAWING IS DIAGE	
AUTOMATIC AIR VENT	CHP CLG CO	CHILLED WATER PUMP CEILING CLEANOUT		NIC NO	NOT IN CONTRACT NUMBER	INTENDED TO BE SCA	
	CONC	CONCRETE CONNECTION		NOX NTS	NITROGEN OXIDE NOT TO SCALE	8. COORDINATE LOC	
STRAINER, Y TYPE W/GATE VALVE OR HOSE BIBB	CONT	CONNECTION CONTINUED/CONTINUATION/CONTINUOUS CLEAN OUT TO GRADE	о	0	OXYGEN	OTHER TRADES TO A	
FLEXIBLE CONNECTION	CU CU CV	CONDENSING UNIT/COPPER CONSTANT VOLUME		OA OAL	OUTSIDE AIR OUTSIDE AIR LOUVER	9. ALL TESTING IS TH CONTRACTOR, WITH	
JOINT	čŵ	COLD WATER		OBD OC	OPPOSED BLADE DAMPER ON CENTER	10. CONTRACTOR SH	
EXPANSION JOINT	D DDC DG	DIRECT DIGITAL CONTROL DOOR GRILLE		OS OS&Y	OVERFLOW SCUPPER OUTSIDE SCREW & YOKE	WATER FLOW AND PF	
FLOW METER	DIA DIM	DIAMETER DIMENSION	Р	PD	PRESSURE DROP	PRESSURES.	
FLOW METER FLOW DIRECTION	DMPR DN	DAMPER DOWN		POC PRESS		11. WHERE STREET W THE BUILDING WATER	
	DPS DR	DIFFERENTIAL PRESSURE SWITCH DRAIN		PRV PSIG	PRESSURE REDUCING VALVE POUNDS PER SQUARE INCH	DESIGNED FOR MININ WATER PRESSURE F	
	DSD DSW	DUCT SMOKE DETECTOR DISTILLED WATER	R	PVC RA	POLYVINYL CHLORIDE RETURN AIR	SOURCE OF SUPPLY PRESSURE BOOSTER	
ELBOW REDUCING	DWG E EAT	DRAWING ENTERING AIR TEMPERATURE	ĸ	RAG RAR	RETURN AIR GRILLE RETURN AIR REGISTER	BUILDING WATER SUP PRESSURE WITHIN A	
UNION	E EAT ED EDB	EQUIPMENT DRAIN ENTERING DRY BULB		RC RD	RAIN CONDUCTOR ROOF DRAIN	APPROVED WATER-P STRAINER CONFORM	RESSURE REDUC
PRESSURE GAUGE WITH TRI-COCK	EER EF	ENERGY EFFICIENCY RATIO EXHAUST FAN		REF RF	REFERENCE RETURN FAN	TO REDUCE THE PRE	
	EFF EG	EFFICIENCY EXHAUST GRILLE		RL RM	RAIN LEADER ROOM		
	EL ELEC	ELEVATION ELECTRICAL		RTN	RETURN		
TEST PLUG	ENT ER	ENTERING EXHAUST REGISTER	S	SA SAG	SUPPLY AIR SUPPLY AIR GRILLE		
TEMPERATURE INDICATOR	EWB EWC	ENTERING WET BULB ELECTRIC WATER COOLER		SAN SAR	SANITARY SUPPLY AIR REGISTER		
FLOW SWITCH	EWT EXH	ENTERING WATER TEMPERATURE EXHAUST		SD SD/FD	SMOKE DAMPER COMB. SMOKE DAMPER\FIRE DAMP.	PIF	PE LINES
FLOW INDICATOR	EWS	EYE WASH/SHOWER STATION		SF SH	SUPPLY FAN SHEET		
REDUCER, CONCENTRIC	F FCO FD	FLOOR CLEANOUT FIRE DAMPER/FLOOR DRAIN		SP SQ FT	STATIC PRESSURE SQUARE FEET		- POTABLE
REDUCER, ECCENTRIC STRAIGHT CROWN	FH FL	FUME HOOD FLOOR	-	SST	STAINLESS STEEL		- POTABLE
REDUCER, ECCENTRIC STRAIGHT INVERT	FLEX FOR	FLEXIBLE FUEL OIL RETURN	Т	TCU TEMP	TERMINAL CONTROL UNIT TEMPERATURE TRANSFER GRILLE		- VENT
AUTO FLOW BALANCING VALVE	FOS FP	FUEL OIL SUPPLY FIRE PUMP		TG TP TYP	TRAP PRIMER TYPICAL		V
FLOOR DRAIN W/P-TRAP	FPI FPM	FINS PER INCH FEET PER MINUTE	U	UC	UNDERCUT	PIF	PE TAGS
FLOOR CLEANOUT	FT FV	FEET FACE VELOCITY		v	VENT		
WALL CLEANOUT	G GA	GAUGE GRAVITY INTAKE VENTILATOR	v	VAV VD	VARIABLE AIR VOLUME VOLUME DAMPER	XX" CW	POTABLE
BACKFLOW PREVENTER	GIV GND GPM	GROUND GALLONS PER MINUTE		VEL VERT	VELOCITY VERTICAL	XX" HW	POTABLE
LUBRICATED PLUG COCK	GRV	GRAVITY RELIEF VENTILATOR		VFD VSD	VARIABLE FREQUENCY DRIVE VARIABLE SPEED DRIVE	XX" HWR	POTABLE
HOSE BIBB W/VACUUM BREAKER	H HB HORIZ	HOSE BIBB HORIZONTAL		VTR	VENT THRU ROOF	XX" V	VENT
CAPPED END	HP HTG	HORSE POWER/HEAT PUMP HEATING	W	W/ W/O	WITH WITHOUT	XX" CA	COMPRES
SIDEWALL SPRINKLER HEAD	HUMID			WCO WC	WALL CLEANOUT WATER COLUMN	XX" SS	SANITARY
PENDENT SPRINKLER HEAD	HWB	HOT WATER BOILER HOT WATER PUMP		WH WHA	WALL HYDRANT WATER HAMMER ARRESTORS	XX" OW	OIL\WAST
UPRIGHT SPRINKLER HEAD	HWR	HOT WATER RETURN		WR WTR	WATER RISER WATER	XX" G	NATURAL
SIAMESE FIRE DEPARTMENT CONNECTION	I ID IN	INSIDE DIAMETER INCHES				XX" VTR	VENT THR
ALARM CHECK VALVE	INV EL						
			_	_			

DELUGE VALVE

PIPE SWAY BRACING PIPE ANCHOR SUPPORT

BALANCING VALVE

### L NOTES

OPS SHALL BE PROVIDED WHERE AT FIXTURE CONNECTIONS. M IN PRESENCE OF OWNER'S 00 PSIG FOR 8 HOURS. SANITARY, L BE TESTED WITH 10' HEAD OF LEVEL OF WATER REMAIN

AND MATERIALS IN FACTURERS INSTRUCTIONS AND

NG SYSTEMS SO THAT THEY WILL NDUE STRAINS OR STRESSES. E FOR EXPANSION, TURAL SETTLEMENT.

OUGH FIRE RATED WALLS AND SHALL BE INSTALLED AND RATING WITH U.L. LISTED ND SEALANTS.

HALL BE INSTALLED NO LESS E. REFER TO STRUCTURAL PENETRATION. ATIC IN NATURE AND IS NOT

OR DIMENSIONS. OF PLUMBING WORK WITH CONFLICTS AND INTERFERENCES. PONSIBILITY OF THE

KTRA COST FOR THE OWNER. E RESPONSIBLE FOR PROVIDING A RE TEST FOR EVALUATING FIRE PROTECTION SERVICE

R MAIN PRESSURES FLUCTUATE, RIBUTION SYSTEM SHALL BE ESSURE AVAILABLE. WHEREVER HE STREET MAIN OR OTHER S THAN 60 PSI, A WATER EM SHALL BE INSTALLED ON THE SYSTEM. WHERE WATER ING EXCEEDS 80 PSI STATIC, AN JRE REDUCING VALVE WITH DASSE 1003 SHALL BE INSTALLED S TO BELOW 80 PSI.

POTABLE COLD WATER POTABLE HOT WATER POTABLE HOT WATER RETURN

POTABLE COLD WATER POTABLE HOT WATER POTABLE HOT WATER RETURN

COMPRESSED AIR SANITARY SEWER OIL\WASTE WATER NATURAL GAS VENT THROUGH ROOF SANITARY SEWER GENERAL NOTES

1. PROVIDE CLEANOUTS AT LOCATIONS AND WITH CLEARANCES AS REQUIRED BY THE CODE NOT EXCEEDING 50 FEET IN HORIZONTAL RUNS AT EACH CHANGE OF DIRECTION, VERTICAL OR HORIZONTAL, GREATER THAN 45°, AT THE BASE OF EACH WASTE OR VENT STACK 5 FEET AFF. PROVIDE WALL CLEANOUTS IN LIEU OF FLOOR CLEANOUTS WHEREVER POSSIBLE. ALL INTERIOR CLEANOUTS SHALL BE ACCESSIBLE FROM WALLS OR

FLOORS. 2. THE FLOOR DRAIN IN TOILETS AND MECHANICAL ROOMS SHALL BE PROVIDED WITH BACKWATER VALVES.

3. MAINTAIN MINIMUM OF 10 FEET CLEARANCE BETWEEN ANY VTR AND OUTSIDE AIR INTAKES. WHERE HORIZONTAL CLEARANCE CANNOT BE PROVIDED, EXTEND VENTS A MIN OF 24" ABOVE EACH OUTSIDE AIR INTAKE.

4. VTR'S ROOF PENETRATIONS, WATER PROOFING AND FLASHINGS SHALL BE PROVIDED BY ROOF CONTRACTOR. 5. ALL TESTING IS THE RESPONSIBILITY OF THE CONTRACTOR. TEST ALL SEWER AND VENT SYSTEMS IN

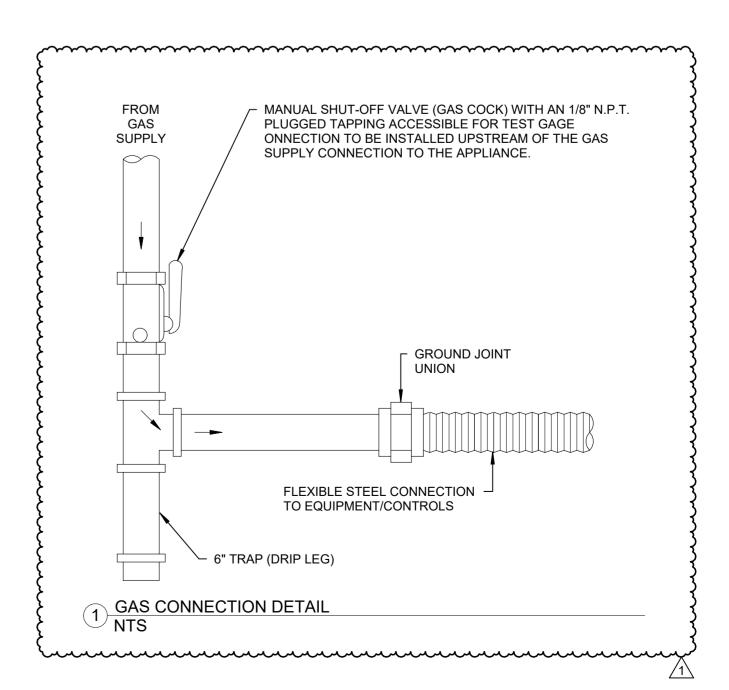
PRESENCE OF OWNER'S REPRESENTATIVE. 6. INVERT ELEVATION SHOWN BASED ON 100.0 FT. FF ELEVATION, REFER TO CIVIL DRAWINGS FOR ACTUAL

ELEVATIONS. 7. SEWER PIPE SHALL BE INSTALLED NO LESS THAN 6"

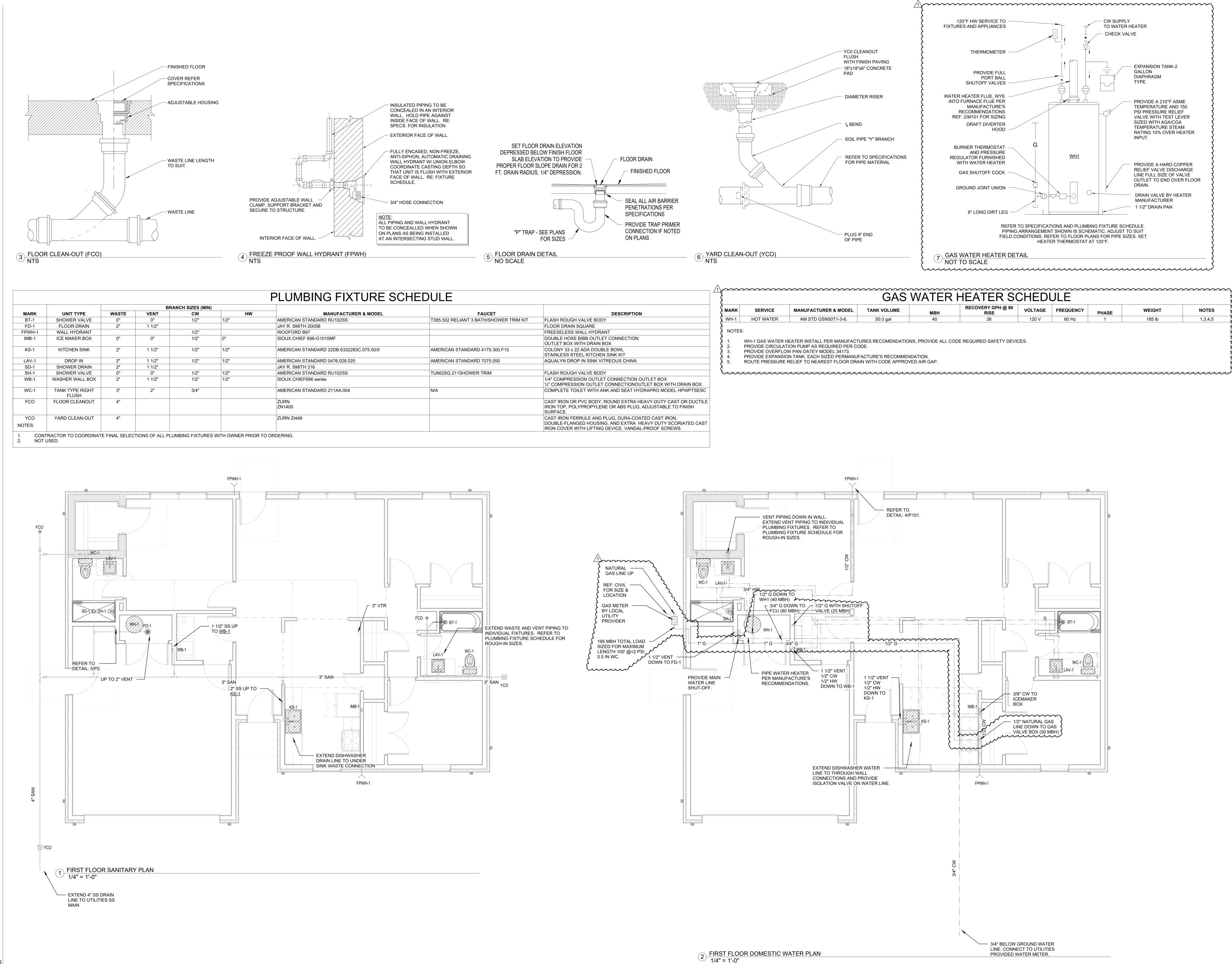
BELOW THE FROST LINE.

NOTE:

THIS IS A STANDARD SYMBOLS & ABBREVIATIONS SHEET. THEREFORE, SOME SYMBOLS & ABBREVIATIONS MAY APPEAR ON THIS SHEET AND NOT ON THE PLANS.

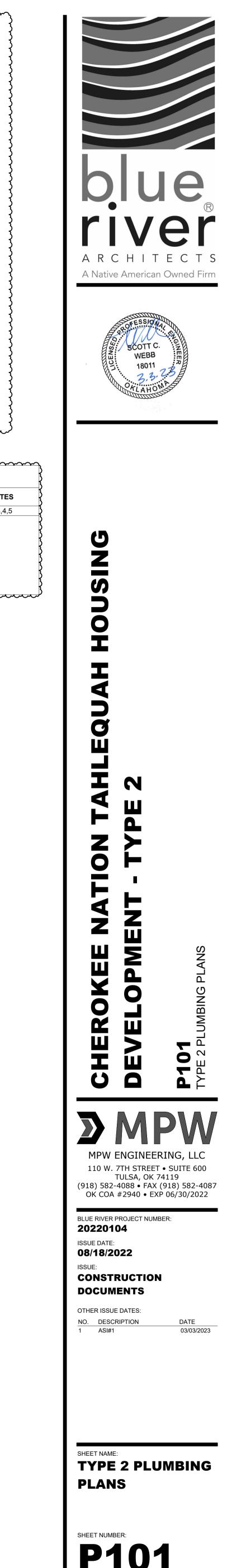






			\		
RER & MODEL	FAUCET	DESCRIPTION			
	T385.502 RELIANT 3 BATH/SHOWER TRIM KIT	FLASH ROUGH VALVE BODY	<b>y</b> WH-1	F	
		FLOOR DRAIN SQUARE	ξ		
		FREESELESS WALL HYDRANT	NOTE	.S:	
		DOUBLE HOSE BIBB OUTLET CONNECTION OUTLET BOX WITH DRAIN BOX			
83C.075.50/5	AMERICAN STANDARD 4175.300.F15	COLONY 33 x 22 ADA DOUBLE BOWL STAINLESS STEEL KITCHEN SINK KIT	2. 3. 4	PRO PRO PRO	
20	AMERICAN STANDARD 7075.050	AQUALYN DROP IN SINK VITREOUS CHINA	<b>5</b> .	ROU	
	TU662SG.211SHOWER TRIM	FLASH ROUGH VALVE BODY	ture the second	سب	
		1/4" COMPRESSION OUTLET CONNECTION OUTLET BOX 1/4" COMPRESSION OUTLET CONNECTIONOUTLET BOX WITH DRAIN BOX			
	N/A	COMPLETE TOILET WITH ANK AND SEAT HYDRAPRO MODEL HPWPTSESC			
		CAST IRON OR PVC BODY, ROUND EXTRA HEAVY-DUTY CAST OR DUCTILE IRON TOP, POLYPROPYLENE OR ABS PLUG, ADJUSTABLE TO FINISH SURFACE.			
		CAST IRON FERRULE AND PLUG, DURA-COATED CAST IRON, DOUBLE-FLANGED HOUSING, AND EXTRA HEAVY DUTY SCORIATED CAST IRON COVER WITH LIFTING DEVICE, VANDAL-PROOF SCREWS.			

~~	GAS WATER HEATER SCHEDULE										
	MANUFACTURER & MODEL	TANK VOLUME	МВН	RECOVERY GPH @ 90 RISE	VOLTAGE	FREQUENCY	PHASE	WEIGHT	NOTES		
	AM STD GSN50T1-3-6,	50.0 gal	40	38	120 V	60 Hz	1	185 lb	1,3,4,5		



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