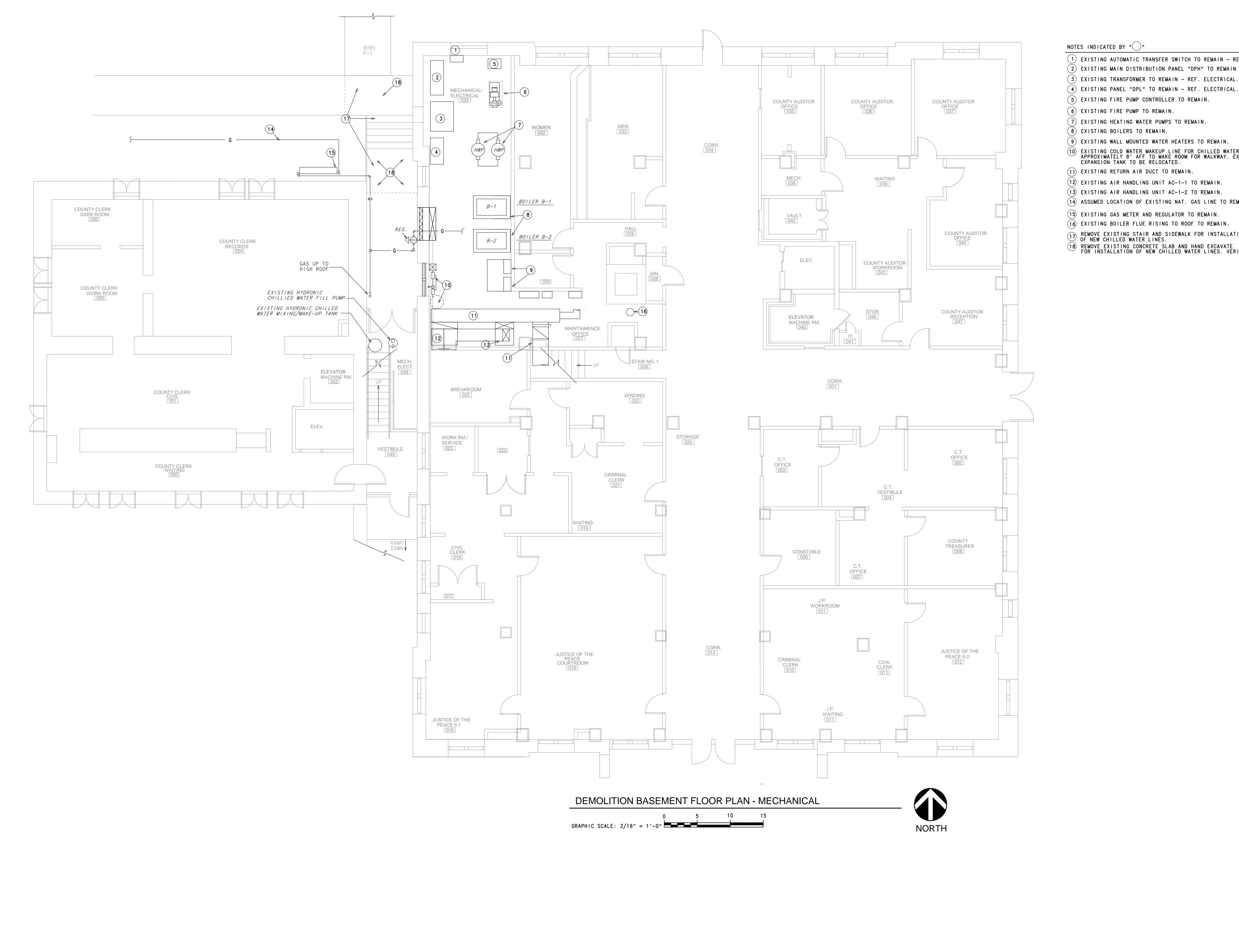


* SCOTT M. FANNING 61441

BY SCOTT M. FANNING, P.E., LICENSE #61441 ON 08/31/20

08/31/2022

MPE001



(1) EXISTING AUTOMATIC TRANSFER SWITCH TO REMAIN - REF. ELECTRICAL.

(2) EXISTING MAIN DISTRIBUTION PANEL "DPH" TO REMAIN - REF. ELECTRICAL.

EXISTING COLD WATER MAKEUP LINE FOR CHILLED WATER SYSTEM TO BE RAISED TO APPROXIMATELY 8' AFF TO MAKE ROOM FOR WALKWAY. EXISTING BLADDER TYPE EXPANSION TANK TO BE RELOCATED.

(12) EXISTING AIR HANDLING UNIT AC-1-1 TO REMAIN.

(14) ASSUMED LOCATION OF EXISTING NAT. GAS LINE TO REMAIN. FIELD VERIFY.

(15) EXISTING GAS METER AND REGULATOR TO REMAIN.

REMOVE EXISTING STAIR AND SIDEWALK FOR INSTALLATION OF NEW CHILLED WATER LINES.

18 REMOVE EXISTING CONCRETE SLAB AND HAND EXCAVATE FOR INSTALLATION OF NEW CHILLED WATER LINES. VERIFY GAS LOCATION.

SCOTT M. FANNING 61441

FANNING, FANNING & ASSOCIATE
CONSULTING ENGINEERS
2555 74th STREET LUBBOCK, TEXAS
(806) 745-2533

DOCUMENT WAS AUTHORIZED BY SCOTT M. FANNING, P.E., LICENSE #61441 ON 08/31/202

LAMAR COUNTY COURTHOUSE HVAC SYSTEM RENOVATION PHASE

DESIGN BY:

DRAWING NAME: MECHANICAL DEMOLITION

BASEMENT

FLOOR PLAN

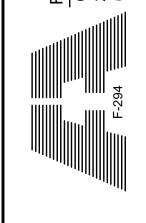
DEMOLITION 4TH FLOOR PLAN - MECHANICAL GRAPHIC SCALE: 3/16" = 1'-0"

NOTES INDICATED BY "()":

1) EXISTING REVERSE RETURN LOOP IN 4TH FLOOR CEILING TO REMAIN

2 EXISTING 6" CHILLED WATER SUPPLY AND RETURN UP TO ROOF. CAP PIPING BELOW ROOF, INSTALL AUTOMATIC AIR VENTS AT TOP OF RISER AND CONNECT NEW PIPING AT THIS POINT. ROUTE DRAIN FROM AUTO AIR VENT TO NEAREST SINK OR SINK TRAP.

3 EXISTING BOILER COIL TO REMAIN.





LAMAR COUNTY COURTHOUSE HVAC SYSTEM RENOVATION PHASE

DESIGN BY:

DRAWING NAME: MECHANICAL DEMOLITION FOURTH FLOOR PLAN

DEMOLITION ROOF PLAN - MECHANICAL

GRAPHIC SCALE: 3/16" = 1'-0"

NOTES INDICATED BY "O":

- 1 ROOF REPLACEMENT IS NOT IN THE SCOPE OF THIS PROJECT. REFER TO ROOF REPLACEMENT PROJECT FOR ROOF WORK.
- 2 NOTE THAT THE SOUTH ROOF IS APPROXIMATELY 4' HIGHER THAN THE ROOF IMMEDIATELY NORTH.
- 3 CAREFULLY REMOVE EXISTING 110-TON AIR-COOLED PACKAGED CHILLERS (2) AND DELIVER TO OWNER AT A DESIGNATED LOCATION OF HIS CHOICE. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL WORK. CHILLERS SHALL REMAIN IN PLACE UNTIL NEW CHILLERS ARE OPERATIONAL. SCHEDULE SHUTDOWN FOR CHANGE OVER.
- 4 EXISTING SUPPORT FRAME FOR CHILLERS TO REMAIN AND BE MODIFIED TO SUPPORT NEW DOAS UNIT(S)
- 5 REMOVE EXISTING 6" CHS/R AND SUPPORTS FROM ROOF.
- 6 REMOVE EXISTING CHILLED WATER PUMPS MOUNTED ON ROOF. REMOVE CONDUIT AND ELECTRICAL SERVICE TO PUMPS. REFER TO ELECTRICAL DRAWINGS.
- 7 REMOVE EXISTING NATURAL GAS GENERATOR SET FROM THE ROOF. EXISTING SUPPORT FRAME TO REMAIN.
- (8) REMOVE EXISTING 6" CHS/R PENETRATING ROOF PATCH OPENING WATERTIGHT.
- 9 EXISTING 2", 2PSI GAS LINE TO REMAIN TO SERVE NEW DOAS UNITS.
- (10) EXISTING ROOF FRAME TO BE REMOVED UNDER ROOF REPLACEMENT PROJECT.



DOCUMENT WAS AUTHORIZED BY SCOTT M. FANNING, P.E., LICENSE #61441 ON 08/31/2022

Y COURTHOUSE
ENOVATION PHASE 1
PARIS, TEXAS 75460

LAMAR COUNTY COUI

DESCRIPTION
22 ISSUE FOR BIDS

DRAW BY:

DRAWING NAME:

MECHANICAL
DEMOLITION
ROOF PLAN

JOB: 21038B
DATE: 08/31/2022

M005



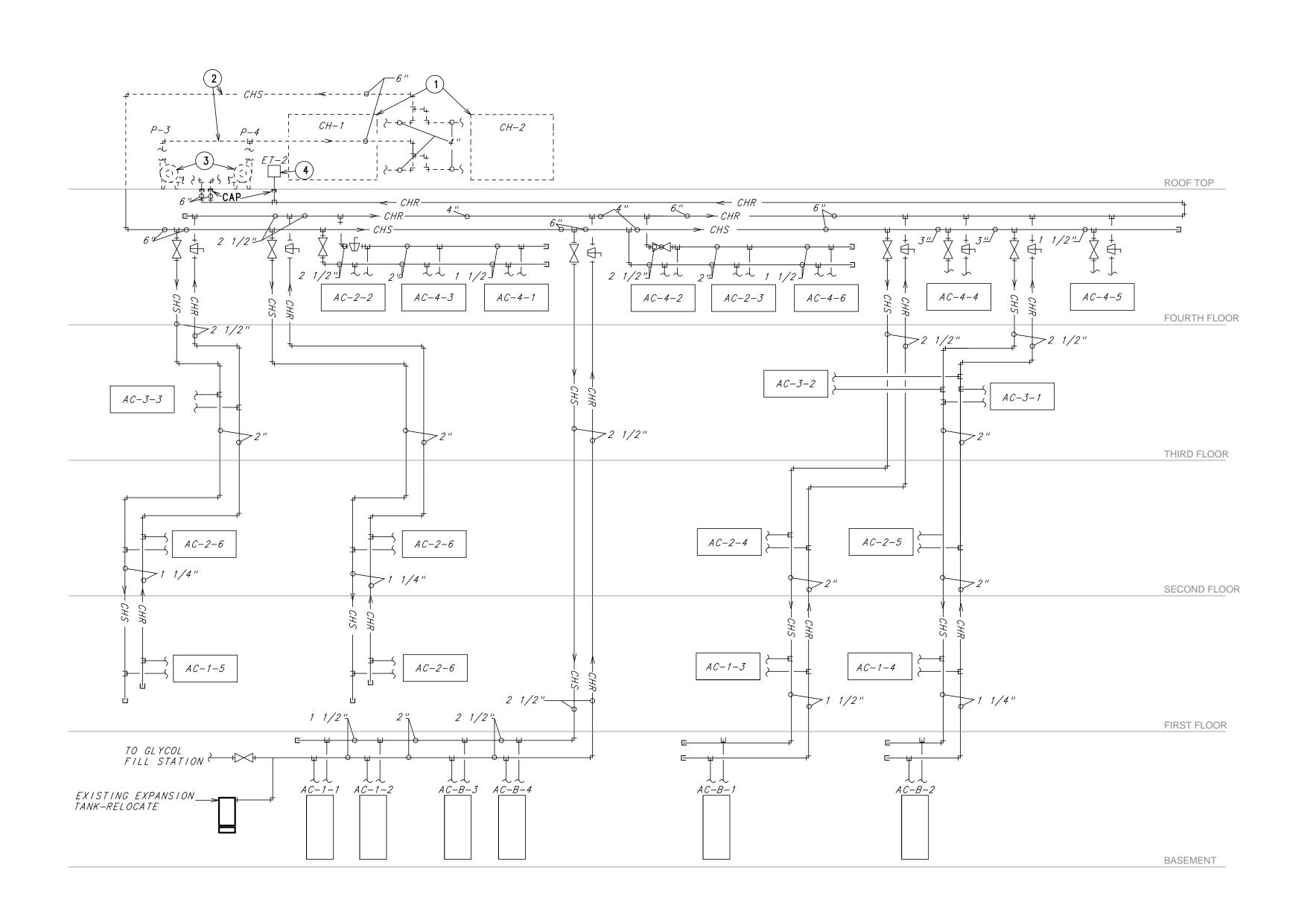
DOCUMENT WAS AUTHORIZED BY SCOTT M. FANNING, P.E.,

LAMAR COUNTY COURTHOUSE HVAC SYSTEM RENOVATION PHASE

DESIGN BY:

DRAWING NAME: MECHANICAL HYDRONIC PIPING SCHEMATICS

08/31/2022

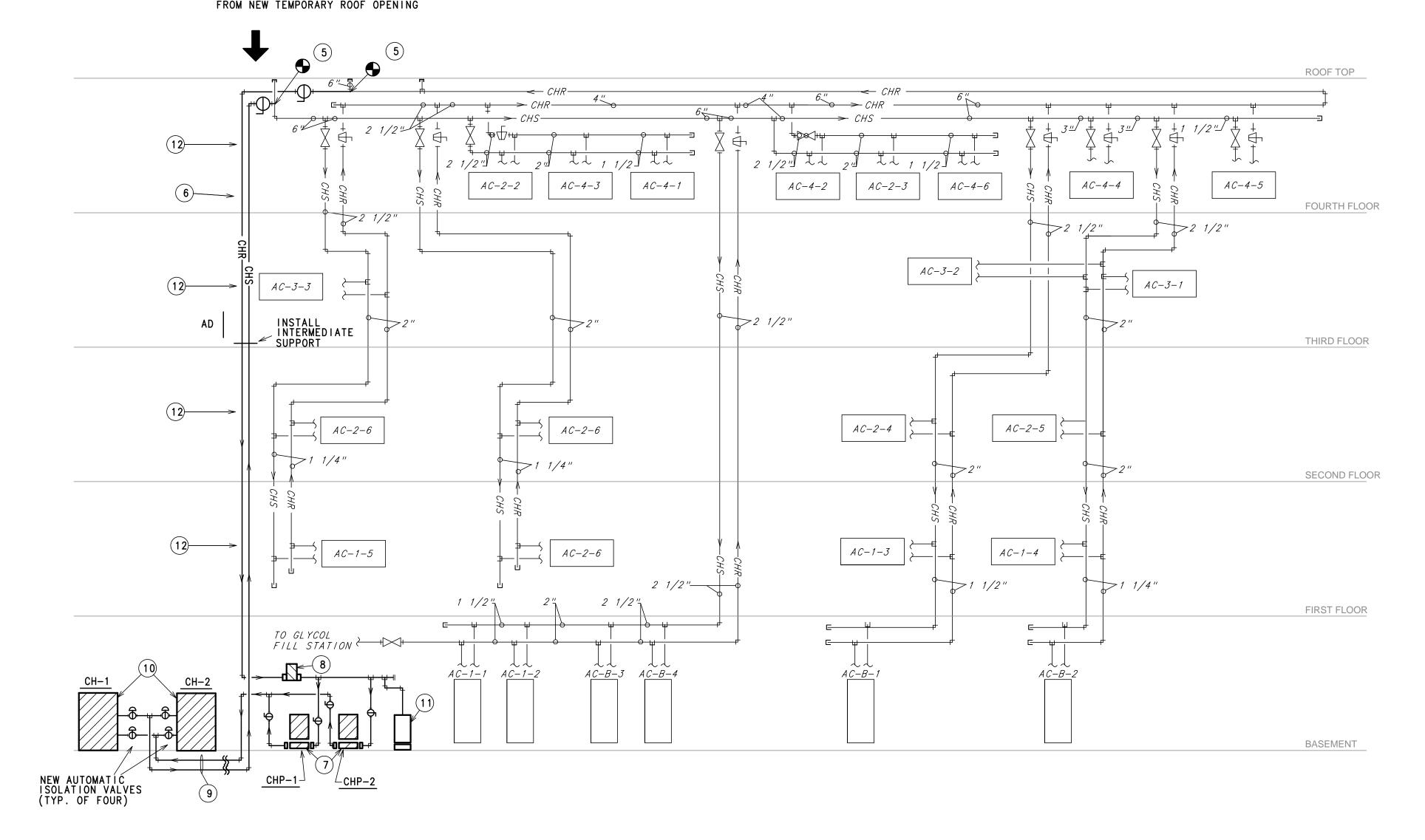


ACCESS NEW PIPING IN CHASE FROM NEW TEMPORARY ROOF OPENING

NEW CHILLED WATER PIPING DIAGRAM

12 CUT NEW ACCESS DOORS AT EACH FLOOR IF REQUIRED TO FACILITATE INSTALLATION OF NEW 6" CHS+R

FROM ROOF. EXISTING ACCESS DOOR EXISTS AT THIRD FLOOR.



EXISTING CHILLED WATER PIPING DIAGRAM - DEMOLITION

NOT TO SCALE

NOT TO SCALE

NOTES INDICATED BY "_":

1 REMOVE EXISTING CHILLERS FROM ROOF

2 REMOVE ALL ROOF MOUNTED CHS/R PIPING

(3) REMOVE EXISTING PUMPS

(4) REMOVE EXISTING CHILLED WATER EXPANSION TANK FROM ROOF. CAP PIPING BELOW ROOF.

5 CONNECT TO EXISTING 6" CHILLED WATER PIPING AT CEILING OF 4TH FLOOR. INSTALL AVV AT HIGH POINT. ROUTE DRAIN TO NEAREST SINK.

(6) EXTEND NEW 6" PIPING DOWN IN EXISTING CHASE TO MECHANICAL EQUIPMENT ROOM

(7) NEW CHILLED WATER PUMP CHP-1 AND STANDBY PUMP CHP-2, BOTH WITH VFDS.

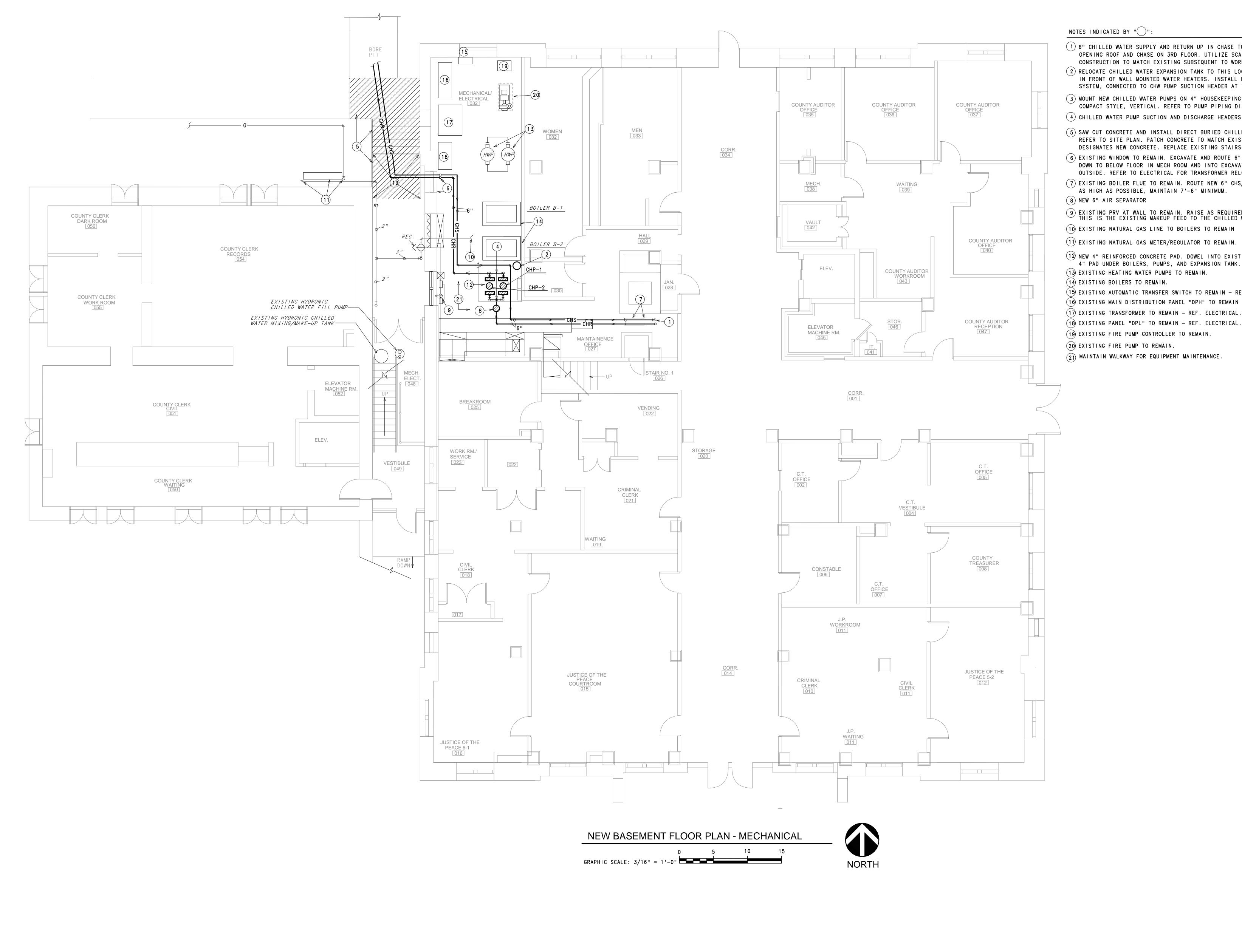
(8) NEW 6" AIR SEPARATOR

(9) EXTEND PIPING FROM MECHANICAL EQUIPMENT ROOM UNDERGROUND TO NEW CHILLERS NORTH OF COURTHOUSE. UTILIZE BORE MACHINE AND PRE-INSULATED PIPING AS SPECIFIED.

(10) NEW NOM. 100-TON AIR COOLED PACKAGED CHILLERS ON CONCRETE PADS IN PARKING LOT WITH

CHAIN-LINK FENCE SURROUNDING - REFER TO SITE PLAN.

(11) RELOCATED EXPANSION TANK.



1) 6" CHILLED WATER SUPPLY AND RETURN UP IN CHASE TO 4TH FLOOR CEILING. INSTALL RISER BY OPENING ROOF AND CHASE ON 3RD FLOOR. UTILIZE SCAFOLDING AS REQUIRED. PATCH ALL GENERAL CONSTRUCTION TO MATCH EXISTING SUBSEQUENT TO WORK.

(2) RELOCATE CHILLED WATER EXPANSION TANK TO THIS LOCATION. MAINTAIN RECOMMENDED CLEARANCES IN FRONT OF WALL MOUNTED WATER HEATERS. INSTALL RELOCATED BLADDER TANK FOR CHILLED WATER SYSTEM, CONNECTED TO CHW PUMP SUCTION HEADER AT THIS LOCATION.

(3) MOUNT NEW CHILLED WATER PUMPS ON 4" HOUSEKEEPING PADS. PUMPS SHALL BE

COMPACT STYLE, VERTICAL. REFER TO PUMP PIPING DIAGRAM. (4) CHILLED WATER PUMP SUCTION AND DISCHARGE HEADERS - 6" SIZE.

(5) SAW CUT CONCRETE AND INSTALL DIRECT BURIED CHILLED WATER PIPING TO SOUTH BORE PIT. REFER TO SITE PLAN. PATCH CONCRETE TO MATCH EXISTING. CROSS HATCHED AREA DESIGNATES NEW CONCRETE. REPLACE EXISTING STAIRS.

(6) EXISTING WINDOW TO REMAIN. EXCAVATE AND ROUTE 6" CHS/R DOWN TO BELOW FLOOR IN MECH ROOM AND INTO EXCAVATED AREA OUTSIDE. REFER TO ELECTRICAL FOR TRANSFORMER RELOCATION

7) EXISTING BOILER FLUE TO REMAIN. ROUTE NEW 6" CHS/R BELOW FLUE Á AS HIGH AS POSSIBLE, MAINTAIN 7'-6" MINIMUM.

9 EXISTING PRV AT WALL TO REMAIN. RAISE AS REQUIRED FOR PERSONNEL ACCESS TO ROOM. THIS IS THE EXISTING MAKEUP FEED TO THE CHILLED WATER SYSTEM(EXISTING TO REMAIN).

(10) EXISTING NATURAL GAS LINE TO BOILERS TO REMAIN

11) EXISTING NATURAL GAS METER/REGULATOR TO REMAIN.

12) NEW 4" REINFORCED CONCRETE PAD. DOWEL INTO EXISTING PADS TO CREATE CONTIGUOUS 4" PAD UNDER BOILERS, PUMPS, AND EXPANSION TANK.

(13) EXISTING HEATING WATER PUMPS TO REMAIN.

(14) EXISTING BOILERS TO REMAIN.

(15) EXISTING AUTOMATIC TRANSFER SWITCH TO REMAIN - REF. ELECTRICAL.

(16) EXISTING MAIN DISTRIBUTION PANEL "DPH" TO REMAIN - REF. ELECTRICAL.

(18) EXISTING PANEL "DPL" TO REMAIN - REF. ELECTRICAL.

(19) EXISTING FIRE PUMP CONTROLLER TO REMAIN.

(20) EXISTING FIRE PUMP TO REMAIN.

(21) MAINTAIN WALKWAY FOR EQUIPMENT MAINTENANCE.

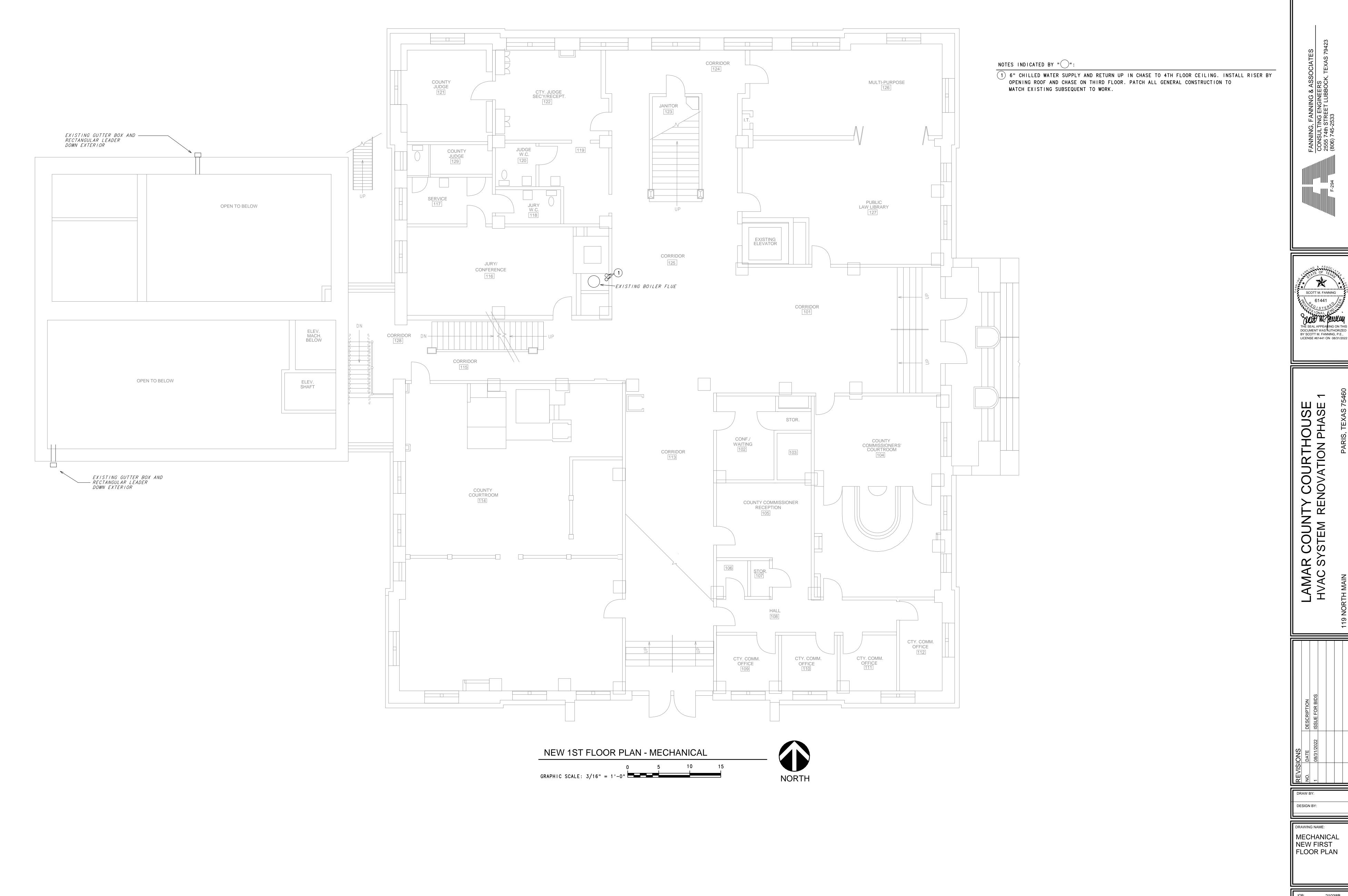
* SCOTT M. FANNING 61441

FANNING, FANNING & ASSOCIATE
CONSULTING ENGINEERS
2555 74th STREET LUBBOCK, TEXAS
(806) 745-2533

BY SCOTT M. FANNING, P.E., LICENSE #61441 ON 08/31/202

LAMAR COUNTY COURTHOUSE HVAC SYSTEM RENOVATION PHASE

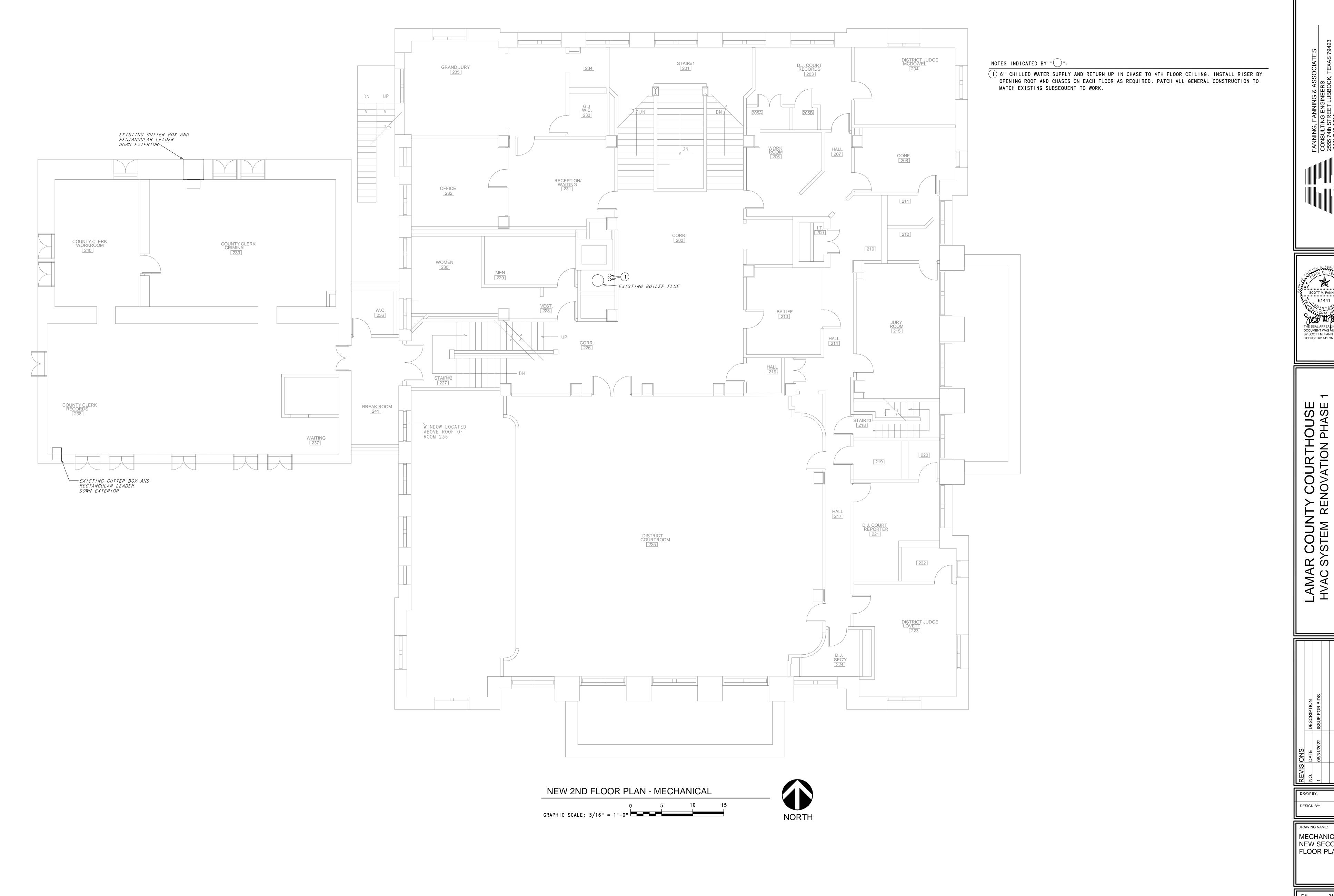
MECHANICAL BASEMENT FLOOR PLAN





DESIGN BY:

DRAWING NAME: MECHANICAL NEW FIRST FLOOR PLAN



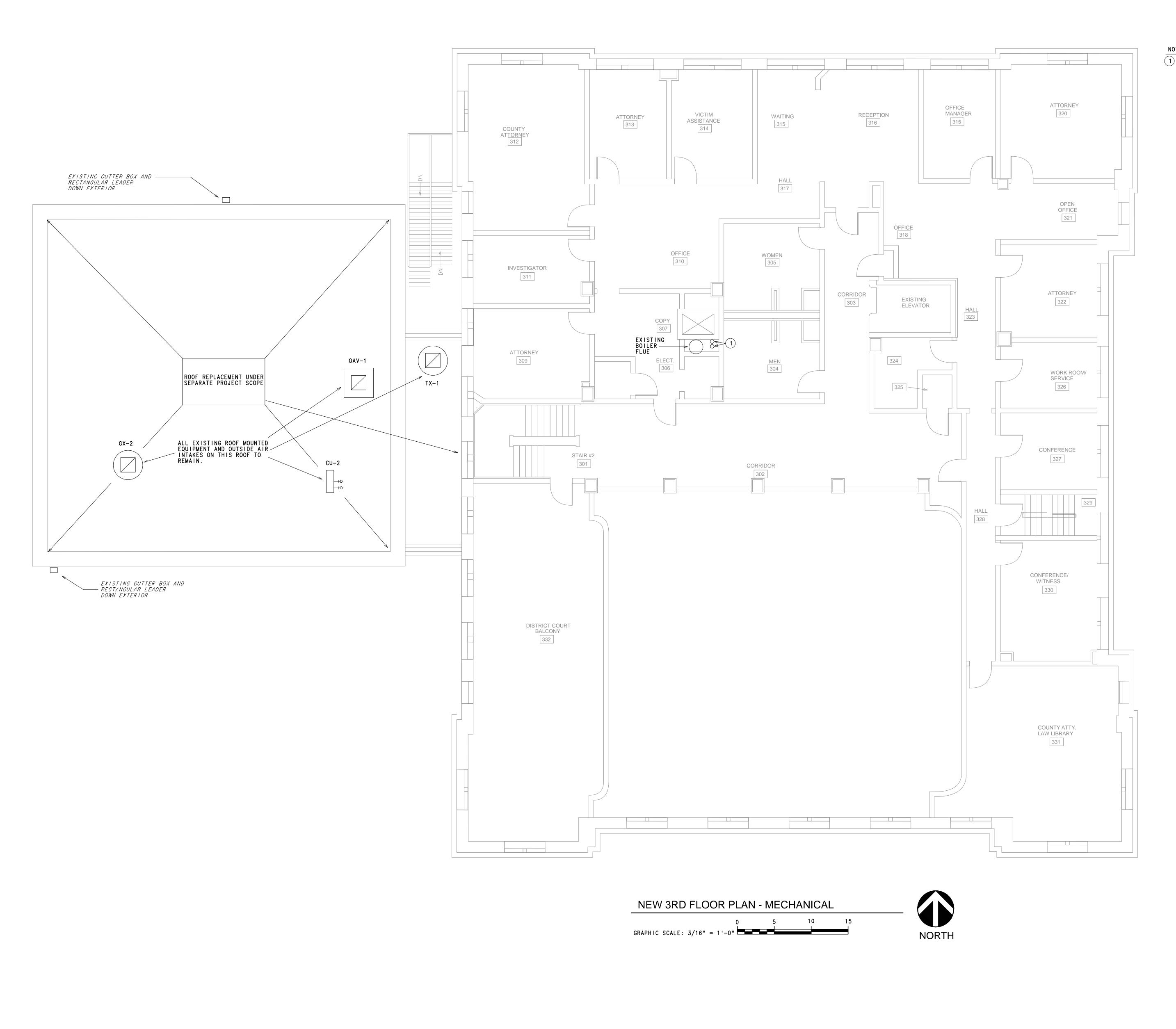




	DESCRIPTION	ISSUE FOR BIDS			
SIONS	DATE	08/31/2022			
-			1	ı	1

DESIGN BY:

MECHANICAL NEW SECOND FLOOR PLAN



NOTES INDICATED BY "()":

6" CHILLED WATER SUPPLY AND RETURN UP IN CHASE TO 4TH FLOOR CEILING. INSTALL RISER BY OPENING ROOF AND CHASES ON EACH FLOOR AS REQUIRED. PATCH ALL GENERAL CONSTRUCTION TO MATCH EXISTING SUBSEQUENT TO WORK.

FANNING, FANNING & ASSOCIATES
CONSULTING ENGINEERS
2555 74th STREET LUBBOCK, TEXAS 7942
(806) 745-2533

THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY SCOTT M. FANNING, P.E., LICENSE #61441 ON 08/31/2022

COUNTY COURTHOUSE
//STEM RENOVATION PHASE

LAMAR HVAC SY

DESIGN BY:

DRAWING NAME:

MECHANICAL NEW THIRD FLOOR PLAN

GRAPHIC SCALE: 3/16" = 1'-0"

NOTES INDICATED BY" ::

- 1 6" CHILLED WATER SUPPLY AND RETURN UP IN CHASE TO 4TH FLOOR CEILING. INSTALL RISER BY OPENING ROOF AND CHASES ON EACH FLOOR AS REQUIRED. PATCH ALL GENERAL CONSTRUCTION TO MATCH EXISTING SUBSEQUENT TO WORK.
- 2 INTERCEPT 6" CHS/R BELOW CEILING. INSTALL AUTO AIR VENTS ON TOPS OF RISERS. TEE 6" CHS/R AND EXTEND DOWN CHASE TO BASEMENT MECH. ROOM.
- 3 EXISTING ROOF HATCH TO REMAIN.
- (4) EXISTING CHILLED WATER LOOP PIPING TO REMAIN IN CEILING.
- 5 REPLACE OR MODIFY EXISTING CEILING AS REQUIRED TO INSTALL NEW PIPING. PATCH TO MATCH EXISTING.

FANNING, FANNING & ASSO CONSULTING ENGINEERS 2555 74th STREET LUBBOCK, TE (806) 745-2533

DOCUMENT WAS AUTHORIZED BY SCOTT M. FANNING, P.E., LICENSE #61441 ON 08/31/2022

LAMAR COUNTY COURTHOUSE HVAC SYSTEM RENOVATION PHASE

DRAWING NAME: MECHANICAL NEW FOURTH FLOOR PLAN

M104

							-						-		_	
		EVAPORATOR DATA														
DESIGNATION	CAPACITY (NET TONS)	EWT	LWT	GPM	MAX. P.D. FT. WTR.	FOULING FACTOR (HR-SQFT-F/BTU)	REFRIGERANT CIRCUITS	EER	DIMENSIONS (L X W X H, INCHES)	AMBIENT TEMP °F	ELECTRICAL DATA	UNIT KW	SCCR	MOA	MOCP	REMARKS-YORK
CH-1	87.23	53	43.0	206	14.7	0.0001	2-R410A	8.01	143 X 88 X 94	105	460V/3PH/60HZ	130.5	5 KA	225	250	YLAA0100SE46 NOMINAL 100 TON
CH-2	87.23	53	43.0	206	14.7	0.0001	2-R410A	8.01	143 X 88 X 94	105	460V/3PH/60HZ	130.5	5 KA	225	250	YLAA0100SE46 NOMINAL 100 TON

NOTES:

1. SINGLE POINT POWER

2. CIRCUIT BREAKER 3. CONTROL TRANSFORMER

4. LOW AMBIENT KIT

5. HOT GAS BYPASS

6. LOUVERED FULL UNIT ENCLOSURE PANELS

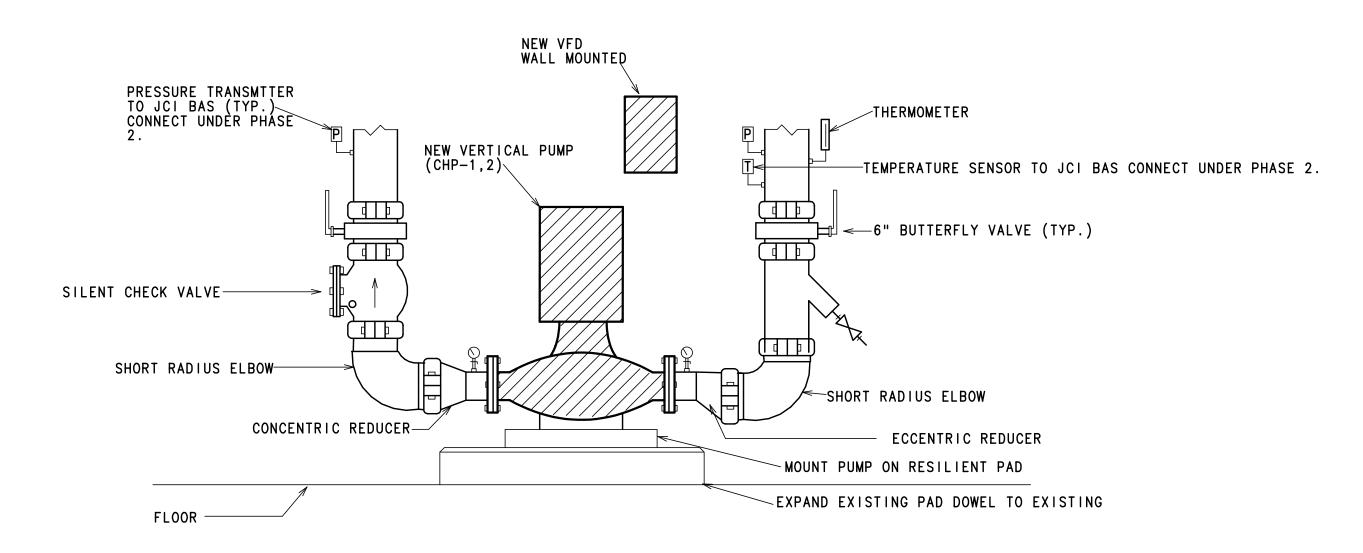
7. NEOPRENE ISOLATORS

8. SERVICE ISOLATION VALVES

9. BACnet (ms/tp), MODBUS, N2 FOR CONNECTION UNDER PHASE 2 PROJECT.

PUMP SCHED	ULE							
PUMP DESIGNATION	GPM	HEAD FT. WATER	MIN. EFF.	TYPE OF PUMP	SPEED RPM	MIN. H.P.	ELECTRICAL	REMARKS
CHP-1	415	120	69.7	VERTICAL IN-LINE	3580	20	460V/3PH/60HZ	ARMSTRONG 4300-3X3X8
CHP-2	415	120	69.7	VERTICAL IN-LINE	3580	20	460V/3PH/60HZ	ARMSTRONG 4300-3X3X8 (STANDBY)

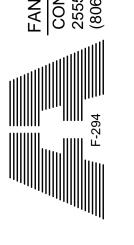
PROVIDE EACH PUMP WITH A VARIABLE FREQUENCY DRIVE.
 CONNECT NEW VFD TO JCI METASYS SYSTEM UNDER PHASE 2 PROJECT.



CHILLED WATER PUMP DETAIL

NO SCALE

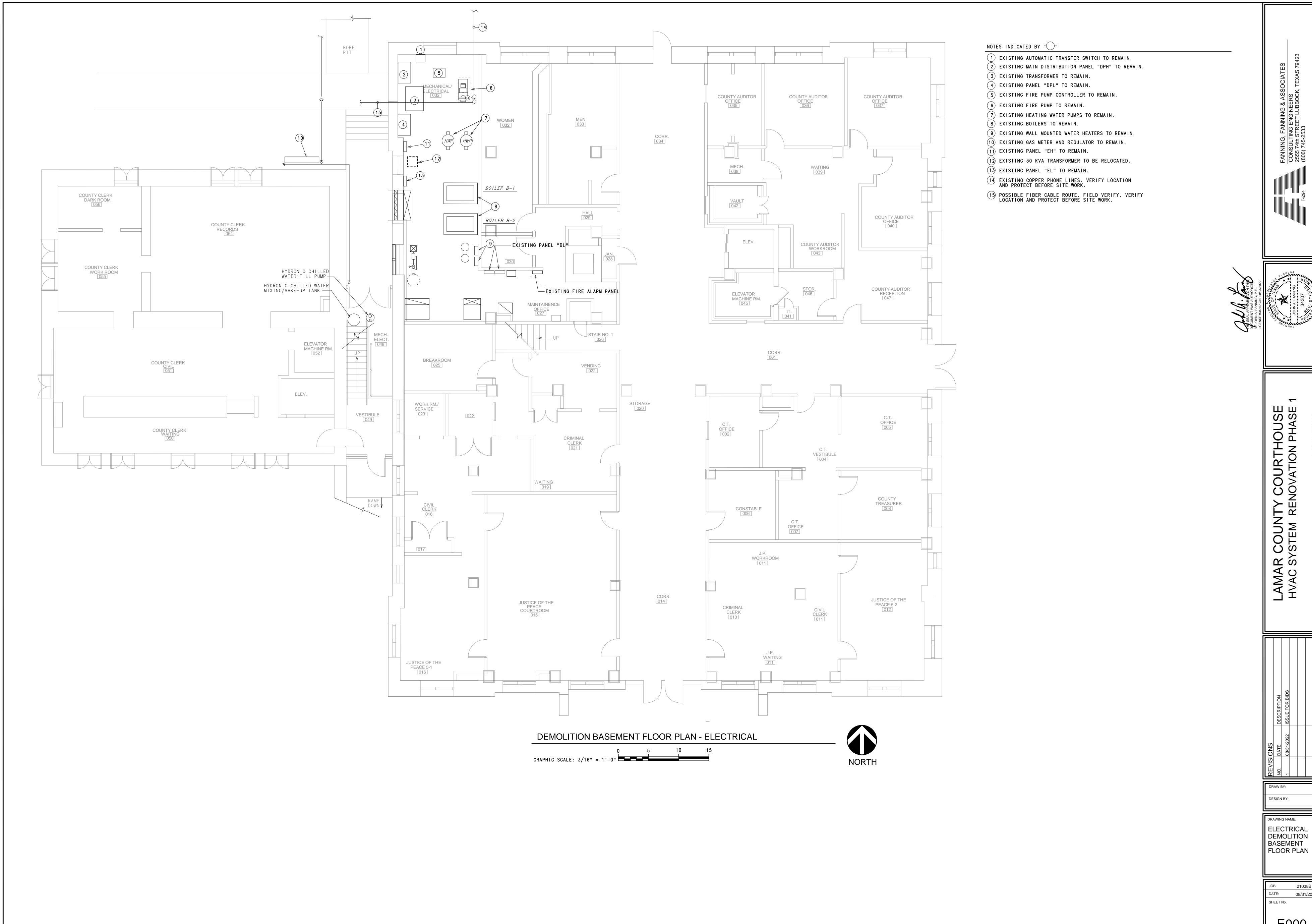
TYP. OF TWO NOTE: INSTALL PUMP WITH SMALLEST PLAN FOOTPRINT POSSIBLE. SPACE IS LIMITED TO INSTALL THE TWO PUMPS. MAINTAIN WALKWAY TO SERVICE EQUIPMENT.





Y COURTHOUSE ENOVATION PHASE

MECHANICAL SCHEDULES



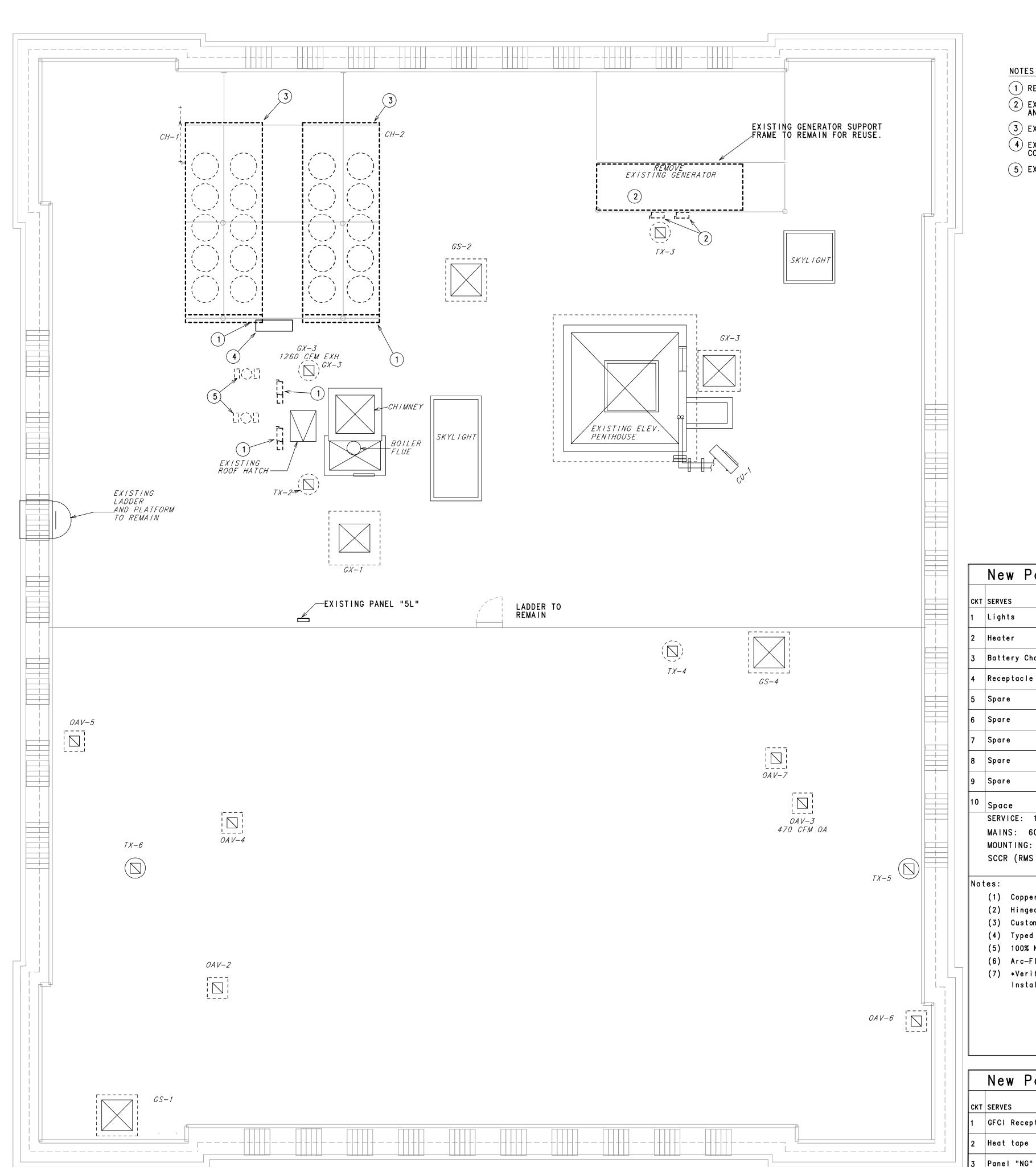
ELECTRICAL DEMOLITION

---PROVIDE NEW BREAKER FOR DHP-7 & 8

		Ckt	Brkr		Continuous VA		Non	-continuo	us VA	
СКТ	SERVES	Trip	Poles	CONDUCTORS / CONDUIT	Lights	Load2	Recept	Load4	Load5	Total VA
М	1200	1200	3	See Riser Diagram						
1	Transformer	450	3	See Riser Diagram						
2	Panel CH	600	3	See Riser Diagram						
3	Space									
4	Pump 1	40	3	4 # 8, # 10G in 3/4" C.						
5	Panel EH-(ATS)	225	3	4 # 4/0, # 4G in 2.5" C.						
6	Pump 2	40	3	3 # 8, # 10G in 3/4" C.						
7*	New CHP-1	60	3	4 # 4, #10G in 1.25" C.				22,437		22,437
8*	New CHP-2	60	3	4 # 4, #10G in 1.25" C.				22,437		22,437
9	Space									
10	Space									
11	Space									
12	Space									
13	Space									
	SERVICE: 277/480 vol	t, 3 ph	ase, 4	wire + G				44,874		44,874
	MAINS: 1200A Main	Bus						44,874		44,874
	Mounting: Free Sta	nding								
	SCCR (RMS Sym) = 32	K			PANEL C	ONNECTED	VA		44,874	
					_	EMAND VA			44,874	
Not	es:					ALCULATED	VA		44,874 8,975	
	(1) Existing Coppe		-							
	(2) New Custom Lam		•			ESIGN VA			53,849	
	(3) New Typed Circ			у		ONNECTED	•			54
	(4) *Provice New B			(man 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		EMAND AMP				54
				(NEC 110.16(B)	PANEL DI	ESIGN AMP	S / PHAS	<u>L</u>		65
	(6) New Arc-Flash	warnin	g Labe	(NEC 110.16)	Nameple	ate Info	Below			
					1	Letters		ck)		
					Existin	ng Switc	hboard	"DHP"	1	
					277/480	-		• • •		
						- · - · •			İ	

CH-1,3,8,9, EQUIPMENT REMOVED FROM ROOF. LEAVE BREAKERS, BUT REMOVE CONDUIT AND CONDUCTORS.

			Brkr		Conti	nuous VA	Non	-continuo	us VA	
СКТ	SERVES	Trip	Poles	CONDUCTORS / CONDUIT	Lights	Load2	Recept	Load4	Motors	Total VA
	Chiller	300	3	3 # 350, # 4G in 2.5" C.						
2	Future DOAS-1	110	3	3 # 2, # 6G in 1.25" C.				73,128		73,128
3	Chiller	300	3	3 # 350, # 4G in 2.5" C.						
4	Future DOAS-2	110	3	3 # 2, # 6G in 1.25" C.				73,128		73,128
5	Main 600A MCB	600		See Riser Diagram						
6	Space									
7	xxx									
8	Pump	70	3	3 # 4, # 8G in 1" C.						
9	xxx									
10	Pump	70	3	4 # 4, # 8G in 1.25" C.						
11	xxx									
12	xxx									
	xxx									
	xxx									
	SERVICE: 480 volt, 3	phase,	3 wire	e + G				146,256		146,256
	MAINS: 600A MCB							146,256		146,256
	MOUNTING: Surface 1		R						Ι	
	SCCR (RMS Sym) = 301	<				ONNECTED	VA		146,256	
						EMAND VA			146,256	
Not	es:					ALCULATED	VA		146,256	
	(1) Existing Copper E	Bussing			PANEL SI				36,564	
	(2) Existing Hinged [ESIGN VA			182,820	
	(3) New Custom Lamino	ated PI	astic N	lamep I a t e		ONNECTED	•			176
	(4) New Typed Circuit	Direc	tory			EMAND AMP				176
	(5) New Arc-Flash Wai	rning L	abel (1	IEC 110.16)	PANEL DI	ESIGN AMP	S / PHAS	E		220
						ate Info				
					(White	Letters	on Bla	ck)		
					Existi	ng Panel	"CH"		1	
					277/480) Volt				
									I	



DEMOLITION ROOF PLAN - ELECTRICAL GRAPHIC SCALE: 3/16" = 1'-0"



NOTES INDICATED BY "\(\tilde{\text{"}}\)":

Lights

Heater

Spare

Space

(3) Custom Laminated Plastic Nameplate

(6) Arc-Flash Warning Label (NEC 110.16)

(7) *Verify Breaker & Conductor Size for Equipment Being

(4) Typed Circuit Directory

(5) 100% Neutral

Installed.

Battery Charge

- (1) REMOVE CONDUIT AND CONDUCTORS BACK TO PANEL "CH".
- 2 EXISTING GENERATOR TO BE RELOCATED. REMOVE CONDUIT AND CONDUCTOR TO AUTOMATIC TRANSFER SWITCH AND PANEL "EL".
- 3 EXISTING CHILLER TO BE RELOCATED.
- 4 EXISTING PANEL "CH" TO REMAIN. REMOVE CONDUIT AND CONDUCTORS FOR CHILLERS AND PUMPS BEING REMOVED.
- 5 EXISTING PUMPS TO BE REMOVED.



SYSTEM REN

LAMAR HVAC SY

New Panel "NG" Non-continuous VA Trip Poles | CONDUCTORS / CONDUIT Recept Load4 Load5 2 # 12, # 12G in 3/4" C. 2 # 12, # 12G in 3/4" C. 1800 1800 2 # 12, # 12G in 3/4" C. Y COURTHOUSE ENOVATION PHASE 840 840 2 # 12, # 12G in 3/4" C. 20 20
 54
 1800
 180
 840

 54
 1800
 180
 840
 SERVICE: 120/208 volt, 1 phase, 3 wire + G 2874 MAINS: 60A MCB MOUNTING: Surface NEMA 3R SCCR (RMS Sym) = 10KPANEL CONNECTED VA 2874 PANEL DEMAND VA 2874 PANEL CALCULATED VA 3388 (1) Copper Bussing PANEL SPARE VA 575 PANEL DESIGN VA 3912 (2) Hinged Door

PANEL CONNECTED AMPS / PHASE

PANEL DEMAND AMPS / PHASE

PANEL DESIGN AMPS / PHASE

Nameplate Info Below

New Panel "NG" 120/208 Volt

Fed From Panel "YC"

(White Letters on Black)

Fed From Utility Service

	New Panel "	'YC"			MINI P	OWER ZO	NE			
		Ckt	Brkr		Conti	nuous VA	Non	-continuo	us VA	
KT	SERVES	Trip	Poles	CONDUCTORS / CONDUIT	Lights	Load2	Recept	Load4	Load5	Total V
	GFCI Receptacle	20	1	2 # 12, # 12G in 3/4" C.			180			180
	Heat tape	20*	2	2 # 10, # 10G in 3/4" C.*		1500				1500
	Panel "NG"	30	2	3 # 8 & # 10G in 1" C.	54	1800	180	840		2874
	New Temperature Control Circuit	20*	1	2 # 12, # 12G in 3/4" C.*				500		500
	Spare	20	1							
	Spare	20	1							
	Spare	20	1							
	Spare	20	1							
	SERVICE: 120/240 vol	t, 1 ph	nase, 3	wire + G	54	3300	360	1340		5054
	MAINS: 80A MCB				54	3300	360	1340		5054
	MOUNTING: Surface	NEMA 3	R							
	SCCR (RMS Sym) = 42	K			PANEL CO	ONNECTED	VA		5054	
					PANEL DI	FMAND VA			5054	

MOUI	NTING: Surface NEMA 3R			
SCC	R (RMS Sym) = 42K	PANEL CONNECTED VA	5054	
		PANEL DEMAND VA	5054	
otes:		PANEL CALCULATED VA	5893	
(1)	Copper Bussing	PANEL SPARE VA	1011	
(2)	Hinged Door	PANEL DESIGN VA	6903	
(3)	Custom Laminated Plastic Nameplate	PANEL CONNECTED AMPS / PHASE		14
(4)	Typed Circuit Directory	PANEL DEMAND AMPS / PHASE		14
(5)	100% Neutral	PANEL DESIGN AMPS / PHASE		19

(5) 100% Neutral (6) Arc-Flash Warning Label (NEC 110.16)

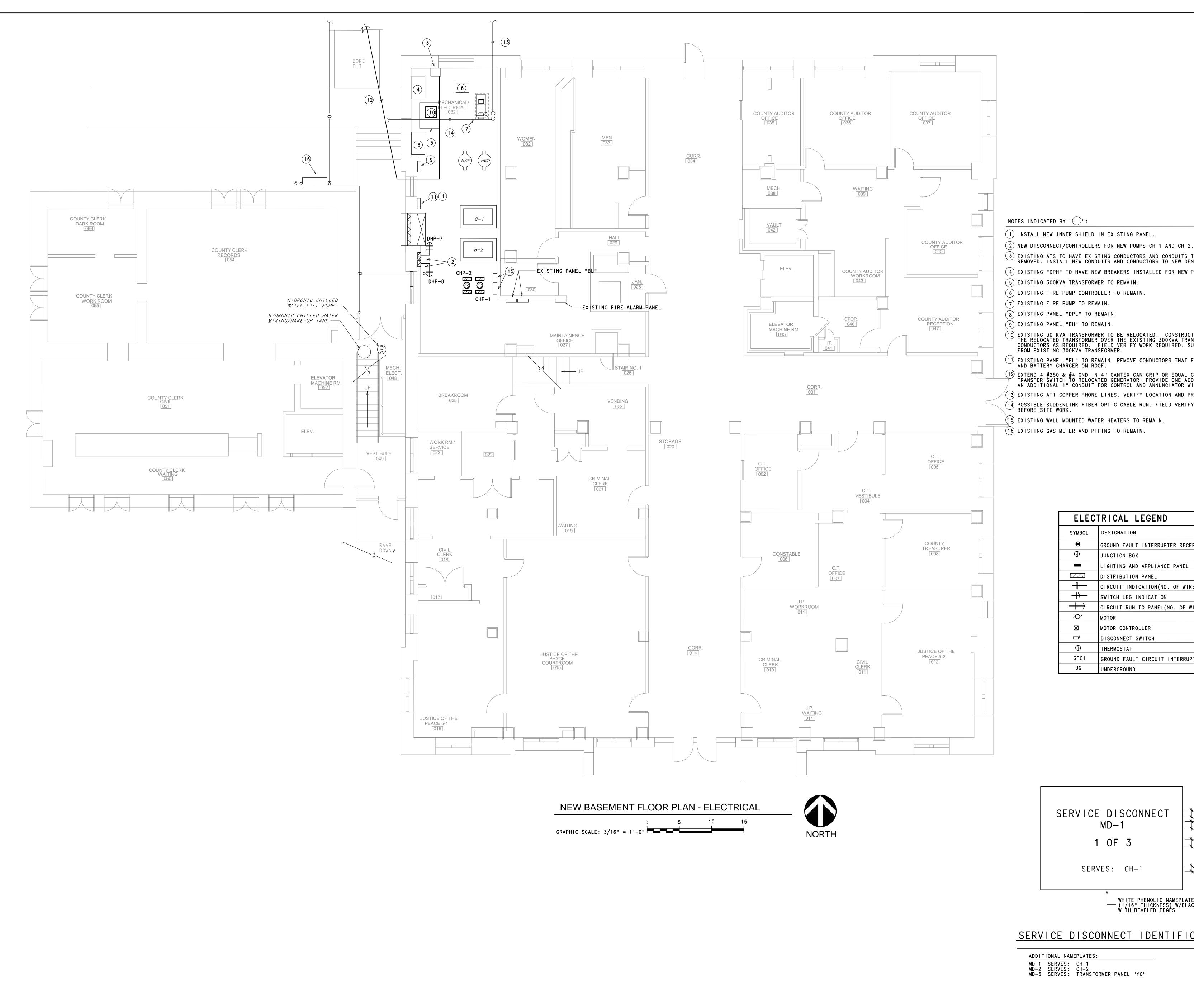
Nameplate Info Below (7) *Verify Breaker & Conductor Size for Equipment Being Installed (White Letters on Black) New Panel "YC"/Transformer 120/208 Volt

08/31/2022

DESIGN BY:

ELECTRICAL DEMOLITION ROOF PLAN

E001



- 3 EXISTING ATS TO HAVE EXISTING CONDUCTORS AND CONDUITS TO ROOF MOUNTED GENERATOR REMOVED. INSTALL NEW CONDUITS AND CONDUCTORS TO NEW GENERATOR LOCATION.
- (4) EXISTING "DPH" TO HAVE NEW BREAKERS INSTALLED FOR NEW PUMPS CHP-1 AND CHP-2.
- (5) EXISTING 300KVA TRANSFORMER TO REMAIN.
- (6) EXISTING FIRE PUMP CONTROLLER TO REMAIN.

- 10 EXISTING 30 KVA TRANSFORMER TO BE RELOCATED. CONSTRUCT A UNI-STRUT FRAME TO SUPPORT THE RELOCATED TRANSFORMER OVER THE EXISTING 300KVA TRANSFORMER. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED. FIELD VERIFY WORK REQUIRED. SUPPORT FRAME SHALL BE INDEPENDANT FROM EXISTING 300KVA TRANSFORMER.
- EXISTING PANEL "EL" TO REMAIN. REMOVE CONDUCTORS THAT FEED GENERATOR COOLANT HEATER, AND BATTERY CHARGER ON ROOF.
- EXTEND 4 #250 & #4 GND IN 4" CANTEX CAN-GRIP OR EQUAL CONDUIT FROM EXISTING AUTOMATIC TRANSFER SWITCH TO RELOCATED GENERATOR. PROVIDE ONE ADDITIONAL EMPTY 4" CONDUIT. INSTALL AN ADDITIONAL 1" CONDUIT FOR CONTROL AND ANNUNCIATOR WIRING.
- (13) EXISTING ATT COPPER PHONE LINES. VERIFY LOCATION AND PROTECT BEFORE SITE WORK.
- 14) POSSIBLE SUDDENLINK FIBER OPTIC CABLE RUN. FIELD VERIFY LOCATION AND PROTECT BEFORE SITE WORK.

- 16 EXISTING GAS METER AND PIPING TO REMAIN.

ELEC	TRICAL LEGEND
SYMBOL	DESIGNATION
=	GROUND FAULT INTERRUPTER RECEPTACLE
0	JUNCTION BOX
	LIGHTING AND APPLIANCE PANEL
	DISTRIBUTION PANEL
	CIRCUIT INDICATION(NO. OF WIRES: GROUND/HOT/NEUTRAL SHOWN)
 	SWITCH LEG INDICATION
$\stackrel{\longrightarrow}{\longrightarrow}$	CIRCUIT RUN TO PANEL(NO. OF WIRES SHOWN)
<i>\(\sigma \)</i>	MOTOR
	MOTOR CONTROLLER
	DISCONNECT SWITCH
T	THERMOSTAT
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
UG	UNDERGROUND

SERVICE DISCONNECT 3/4" 1/2" SERVES: CH-1

WHITE PHENOLIC NAMEPLATE
— (1/16" THICKNESS) W/BLACK LETTERS
WITH BEVELED EDGES

SERVICE DISCONNECT IDENTIFICATION DETAIL

MD-1 SERVES: CH-1 MD-2 SERVES: CH-2 MD-3 SERVES: TRANSFORMER PANEL "YC"

08/31/2022

E100

LAMAR COUNTY COURTHOUSE HVAC SYSTEM RENOVATION PHASE

DESIGN BY:

DRAWING NAME: ELECTRICAL NEW BASEMENT FLOOR PLAN