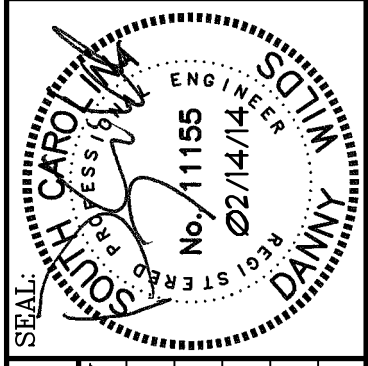


DEMOLITION NOTES

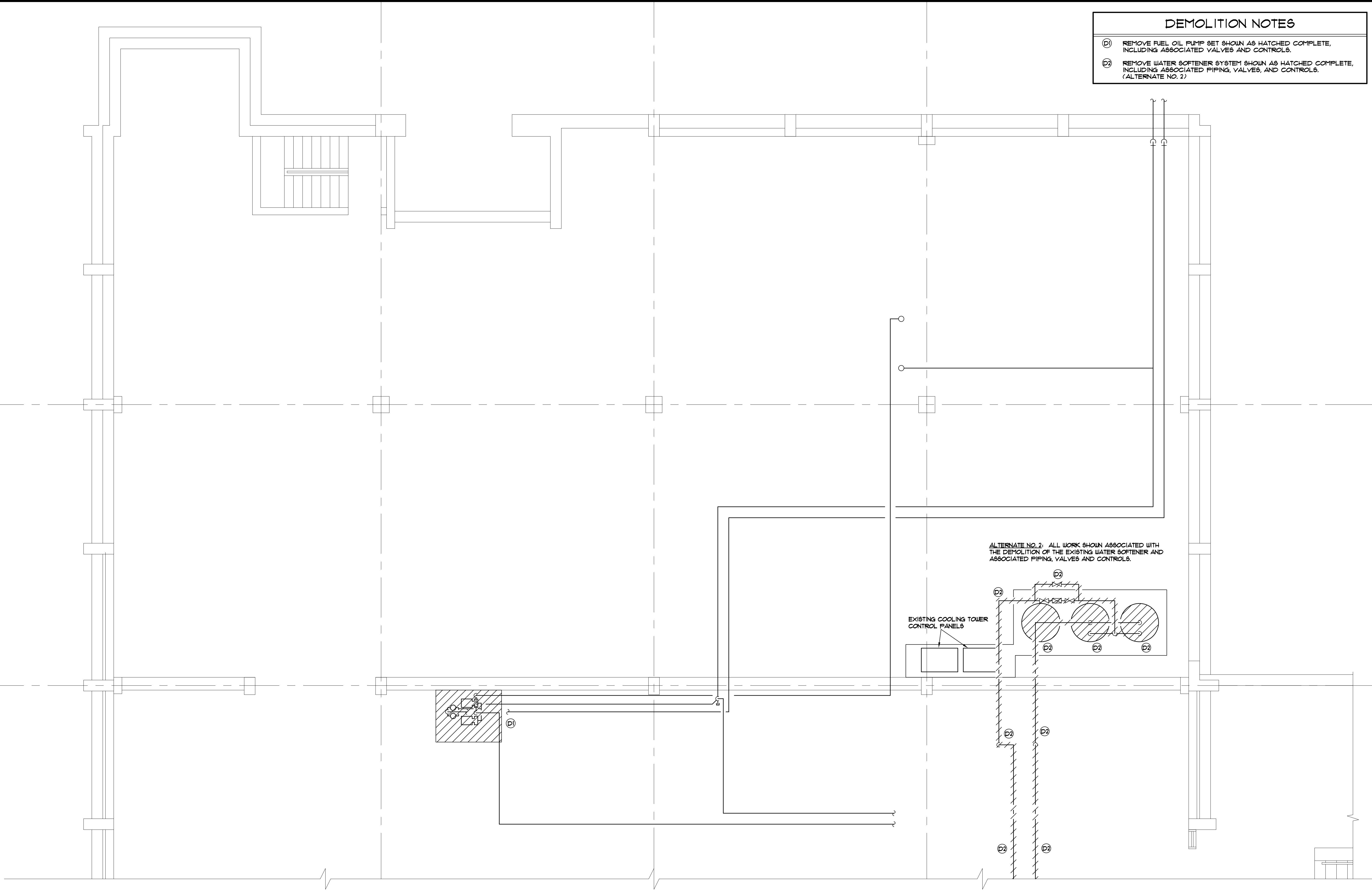
① REMOVE FUEL OIL PUMP SET SHOWN AS HATCHED COMPLETE, INCLUDING ASSOCIATED VALVES AND CONTROLS.

② REMOVE WATER SOFTENER SYSTEM SHOWN AS HATCHED COMPLETE, INCLUDING ASSOCIATED PIPING, VALVES, AND CONTROLS. (ALTERNATE NO. 2)

OFFICE OF
FACILITIES MANAGEMENT
COLUMBIA, SC 29208



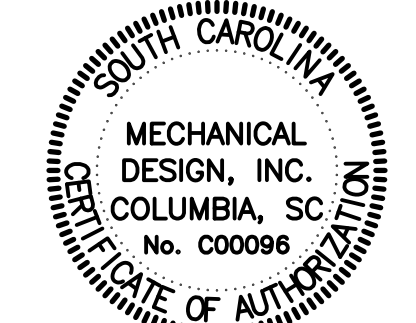
BUILDING:	DRAWING:	DATE:	DRAWN BY:	CHECKED BY:
140	WESTEL MD1	02/14/14	JPO	CDU
REV.	DESCRIPTION	DATE	ORIG. BY	DRAWN BY



ALTERNATE NO. 2: ALL WORK SHOWN ASSOCIATED WITH THE DEMOLITION OF THE EXISTING WATER SOFTENER AND ASSOCIATED PIPING, VALVES AND CONTROLS.

EXISTING COOLING TOWER CONTROL PANELS

WEST ENERGY FACILITY
LOWER LEVEL PARTIAL MECHANICAL PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"



MECHANICAL DESIGN INC.
4403 Broad River Road
Columbia, S.C. 29210
(803) 731-9834
(803) 731-9837 FAX
CONTACT: Danny Wilds
DATE: 02/14/14
COMM. No. 133036

PROJECT TITLE: **WEST ENERGY No. 2 BOILER REPLACEMENT**
S.C. STATE PROJ. NO. _____
University of South Carolina

SHEET: **MD1**
OF 8
SHEET IN SET: _____
OF _____

DEMOLITION NOTES

ⓓ REMOVE WATER SOFTENER SYSTEM SHOWN AS HATCHED COMPLETE, INCLUDING ASSOCIATED PIPING, VALVES, AND CONTROLS UP TO CONNECTION TO EXISTING SURGE/DEARATOR TANK. (ALTERNATE NO. 2)

ALTERNATE NO. 2: ALL WORK SHOWN ASSOCIATED WITH THE DEMOLITION OF THE EXISTING WATER SOFTENER AND ASSOCIATED PIPING, VALVES AND CONTROLS.

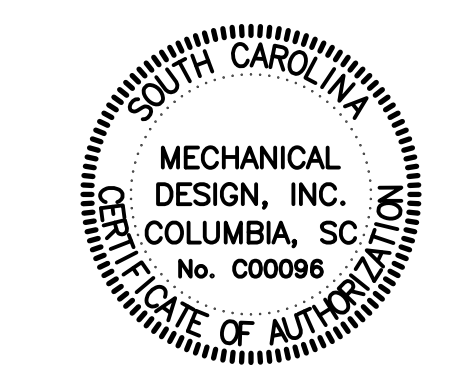
EXISTING 2" D.W. EXISTING 2" MAKE-UP WATER

EXISTING 4" D.W.

EXISTING 3" D.W.

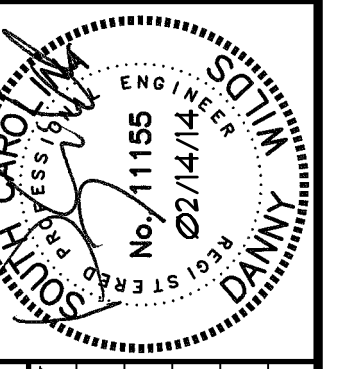
EXISTING 2" MAKE-UP WATER UP TO SURGE/DEARATOR TANK

WEST ENERGY FACILITY
LOWER LEVEL PARTIAL MECHANICAL PLAN - DEMOLITION
 SCALE: 1/4" = 1'-0"



MECHANICAL DESIGN, INC.
 4403 Broad River Road
 Columbia, S.C. 29210
 (803) 731-9834
 (803) 731-9837 FAX
 CONTACT: Danny Wilds
 DATE: 02/14/14 COMM. No. 133036

OFFICE OF
 FACILITIES MANAGEMENT
 COLUMBIA, SC 29208



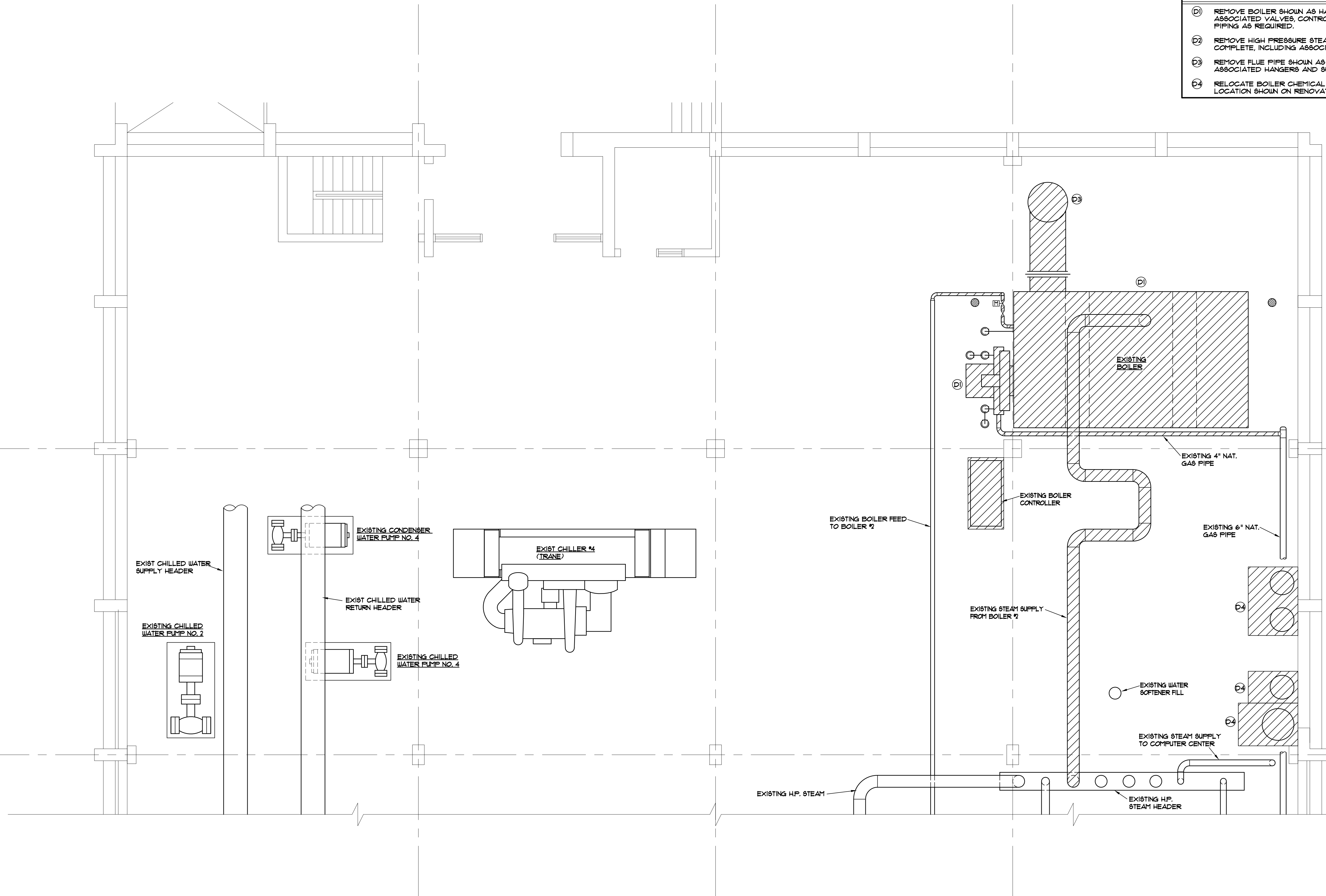
REV.	DATE	DESCRIPTION	DRWN BY	CHKD BY

PROJECT TITLE: **WEST ENERGY No. 2 BOILER REPLACEMENT**
 S.C. STATE PROJ. NO. University of South Carolina

SHEET: **MD2**
 OF 8
 SHEET IN SET:
 OF

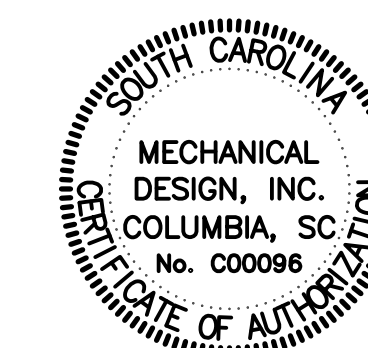
DEMOLITION NOTES

- ① REMOVE BOILER SHOWN AS HATCHED COMPLETE, INCLUDING ASSOCIATED VALVES, CONTROLS, SUPPORTS, GAS TRAIN, AND FUEL OIL PIPING AS REQUIRED.
- ② REMOVE HIGH PRESSURE STEAM PIPING SHOWN AS HATCHED COMPLETE, INCLUDING ASSOCIATED HANGERS AND SUPPORTS.
- ③ REMOVE FLUE PIPE SHOWN AS HATCHED COMPLETE, INCLUDING ASSOCIATED HANGERS AND SUPPORTS.
- ④ RELOCATE BOILER CHEMICAL FEED SYSTEM SHOWN AS HATCHED TO LOCATION SHOWN ON RENOVATIONS PLAN.

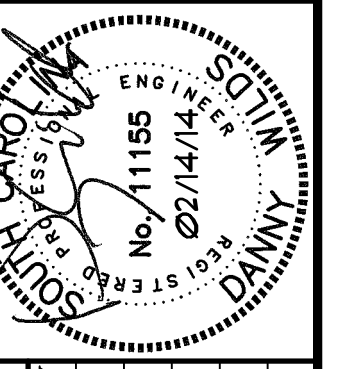


**WEST ENERGY FACILITY
MAIN LEVEL MECHANICAL PLAN - DEMOLITION**

SCALE: 1/4" = 1'-0"



MECHANICAL DESIGN INC.
 4403 Broad River Road
 Columbia, S.C. 29210
 (803) 731-9834
 (803) 731-9837 FAX
 CONTACT: Danny Wilds
 DATE: 02/14/14
 COMM. No. 133036

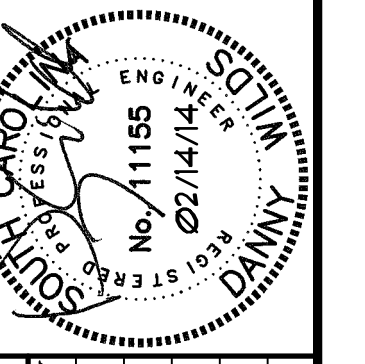


SEAL	CHECKED BY:	DRAWN BY:	DATE:	DESCRIPTION
	COU	JPO	02/14/14	
	ORIG.			

PROJECT TITLE: **WEST ENERGY No. 2 BOILER REPLACEMENT**
 S.C. STATE PROJ. NO. University of South Carolina

SHEET: **MD3**
 OF 8
 SHEET IN SET: OF

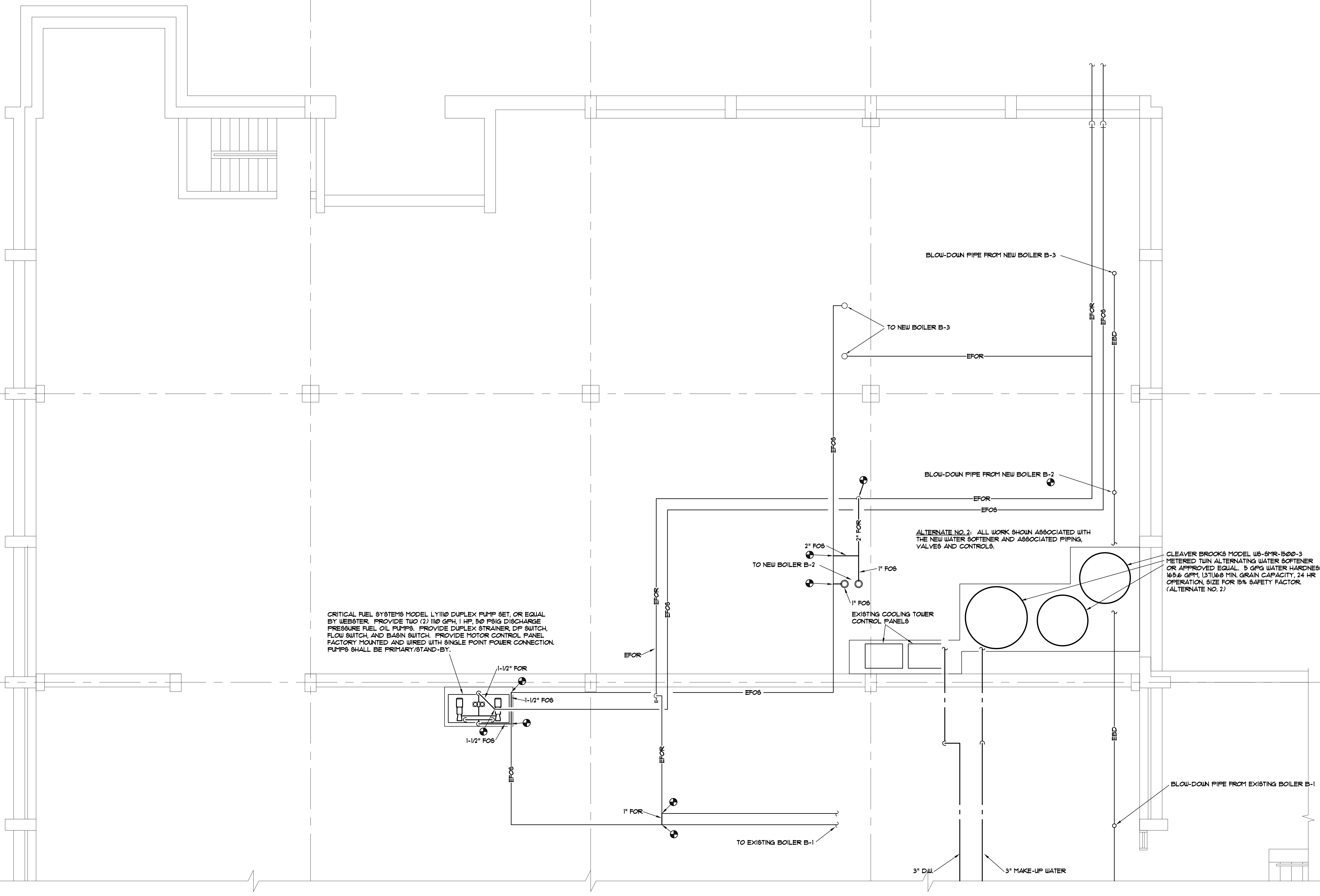
OFFICE OF
 FACILITIES MANAGEMENT
 COLUMBIA, SC 29208



SEAL:	CHECKED BY: CDW	DATE: 02/14/14
DRAWN BY: JPO	ORIG. BY: CDW	DATE: 02/14/14
DRAWING: WESTBLM1	DESCRIPTION:	
BUILDING: 140	REV:	

PROJECT TITLE: WEST ENERGY No. 2 BOILER REPLACEMENT	S.C. STATE PROJ. NO.:
	University of South Carolina

SHEET:	M1
	OF 8
SHEET IN SET:	OF

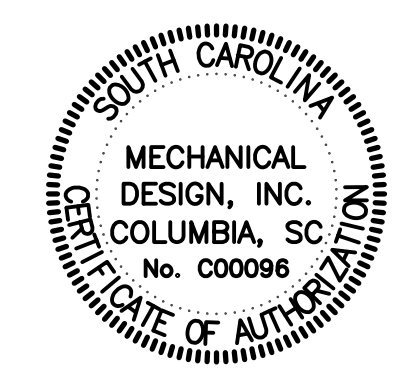


CRITICAL FUEL SYSTEMS MODEL LY1110 DUPLEX PUMP SET, OR EQUAL BY WEBSTER. PROVIDE TWO (2) 1110 GPH, 1 HP, 50 PSIG DISCHARGE PRESSURE FUEL OIL PUMPS. PROVIDE DUPLEX STRAINER, DP SWITCH, FLOW SWITCH, AND BASIN SWITCH. PROVIDE MOTOR CONTROL PANEL FACTORY MOUNTED AND WIRED WITH SINGLE POINT POWER CONNECTION. PUMPS SHALL BE PRIMARY/STAND-BY.

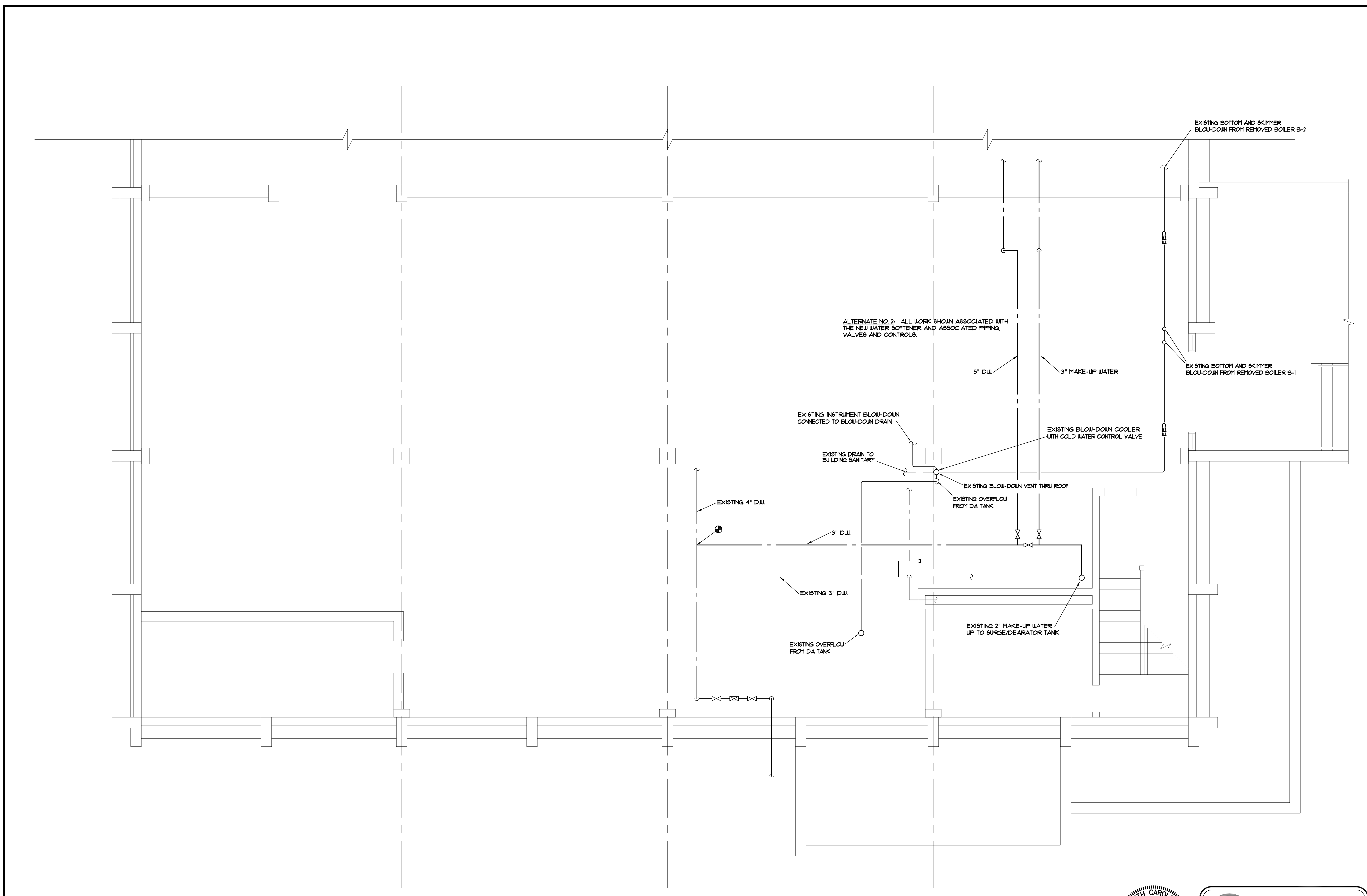
ALTERNATE NO. 2: ALL WORK SHOWN ASSOCIATED WITH THE NEW WATER SOFTENER AND ASSOCIATED PIPING, VALVES AND CONTROLS.

CLEAVER BROOKS MODEL US-8MR-1500-3 METERED TWIN ALTERNATING WATER SOFTENER OR APPROVED EQUAL. 5 GPG WATER HARDNESS, 165.6 GPM, 1371.60 MIN. GRAIN CAPACITY, 24 HR OPERATION, SIZE FOR 15% SAFETY FACTOR (ALTERNATE NO. 2)

WEST ENERGY FACILITY
LOWER LEVEL MECHANICAL PLAN - DEMOLITION
 SCALE: 1/4" = 1'-0"

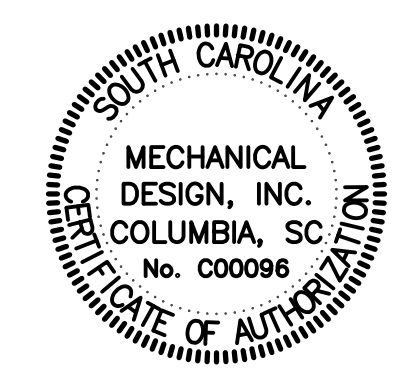


MECHANICAL DESIGN INC.
 4403 Broad River Road
 Columbia, S.C. 29310
 (803) 731-9834
 (803) 731-9837 FAX
 CONTACT: Danny Wilds
 DATE: 02/14/14
 COMM. No. 133036



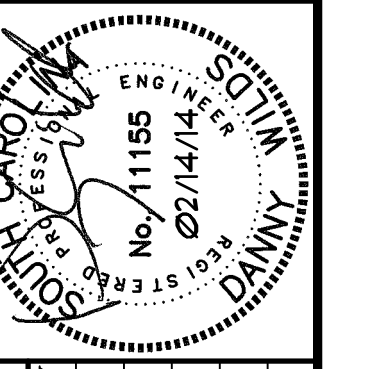
ALTERNATE NO. 2: ALL WORK SHOWN ASSOCIATED WITH THE NEW WATER SOFTENER AND ASSOCIATED PIPING, VALVES AND CONTROLS.

WEST ENERGY FACILITY
LOWER LEVEL PARTIAL MECHANICAL PLAN - RENOVATIONS
 SCALE: 1/4" = 1'-0"



MECHANICAL DESIGN INC.
 4403 Broad River Road
 Columbia, S.C. 29210
 (803) 731-9834
 (803) 731-9837 FAX
 CONTACT: Danny Wilds
 DATE: 02/14/14 COMM. No. 133036

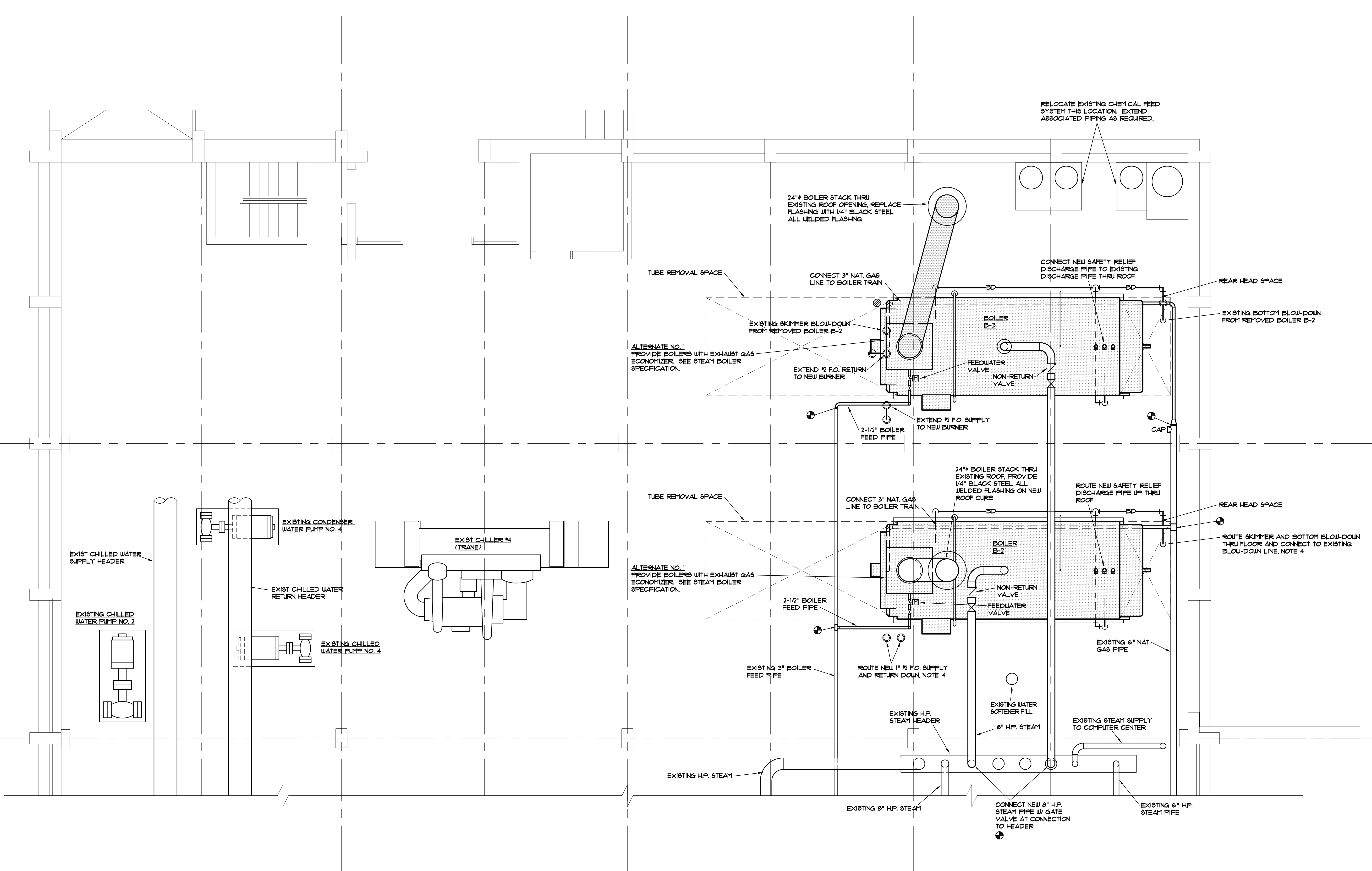
OFFICE OF FACILITIES MANAGEMENT COLUMBIA, SC 29208	
PROJECT TITLE: WEST ENERGY No. 2 BOILER REPLACEMENT	SHEET: M2
S.C. STATE PROJ. NO. University of South Carolina	OF 8
DATE: 02/14/14	SHEET IN SET: OF
BUILDING: 40 DRAWING: 40 DATE: 02/14/14 DESCRIPTION:	CHECKED BY: CDW ORG. BY: DRWN BY:
DRAWN BY: JPO DATE:	SEAL: [Professional Engineer Seal]



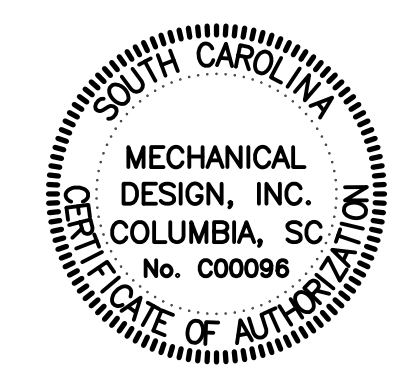
SEAL: [Professional Engineer Seal]	CHECKED BY: CDW
DATE: 02/14/14	ORIG. BY/DRAWN BY:
DRAWN BY: JPO	DATE:
DESCRIPTION:	
BUILDING: 140	REV:

PROJECT TITLE: WEST ENERGY NO. 2 BOILER REPLACEMENT	S.C. STATE PROJ. NO. H
	University of South Carolina

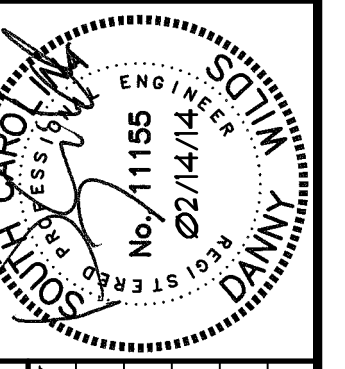
SHEET: M3
OF 8
SHEET IN SET:
OF



WEST ENERGY FACILITY
MAIN LEVEL PARTIAL MECHANICAL PLAN - RENOVATION
SCALE: 1/4" = 1'-0"



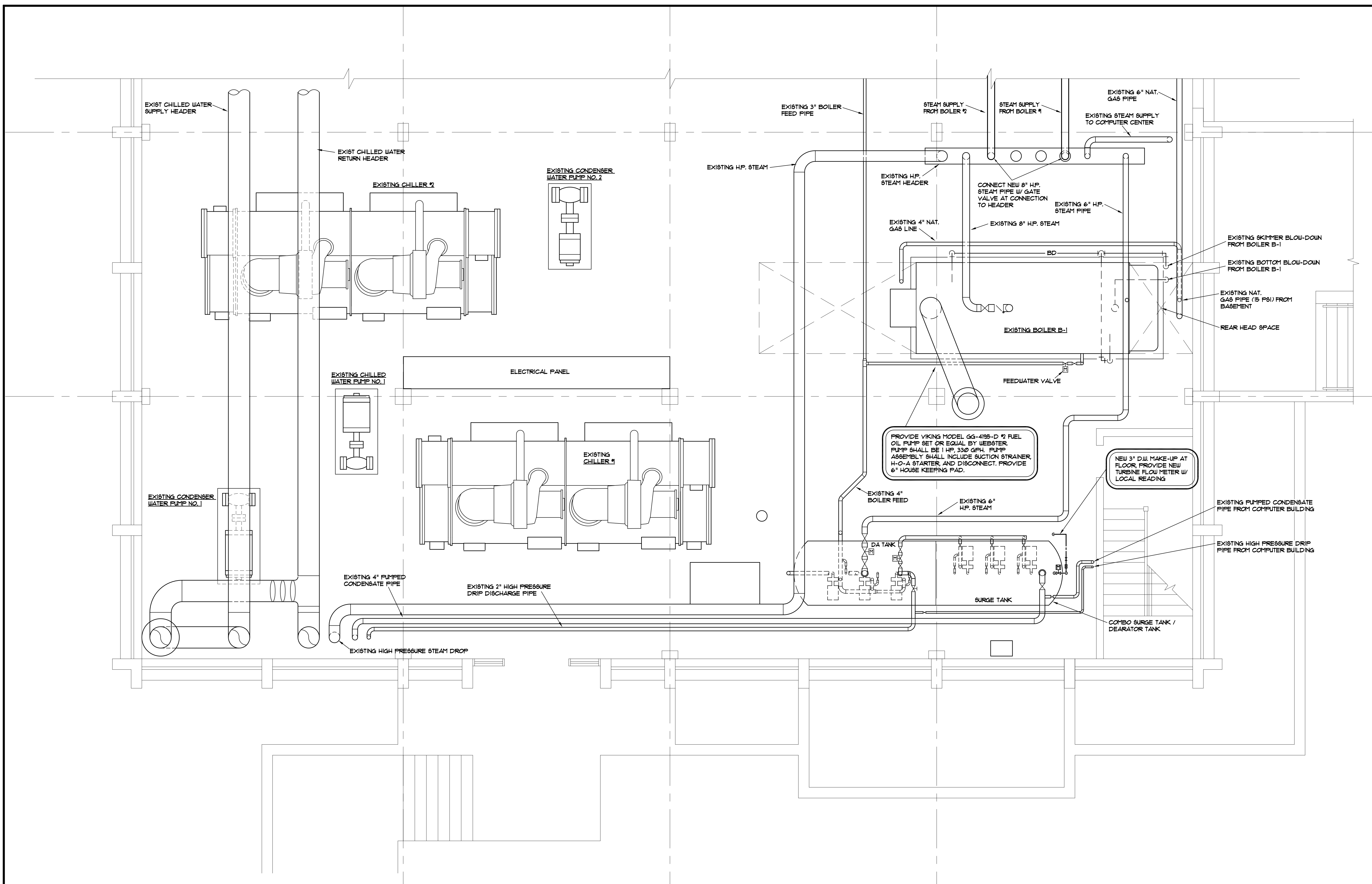
MECHANICAL DESIGN, INC.
4403 Broad River Road
Columbia, S.C. 29210
(803) 731-9834
(803) 731-9837 FAX
CONTACT: Danny Wilds
DATE: 02/14/14 COMM. No. 133036



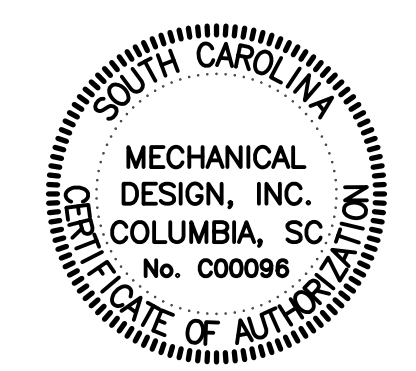
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DRAWN BY: JPO	DATE: [Blank]
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DRAWING: WEST/14/4	DESCRIPTION: [Blank]
BUILDING: M4	DESCRIPTION: [Blank]
REV: [Blank]	DESCRIPTION: [Blank]

PROJECT TITLE: WEST ENERGY NO. 2 BOILER REPLACEMENT
S.C. STATE PROJ. NO. H
University of South Carolina

SHEET: M4
OF 8
SHEET IN SET: [Blank]
OF [Blank]



WEST ENERGY FACILITY
MAIN LEVEL PARTIAL MECHANICAL PLAN - RENOVATION
SCALE: 1/4" = 1'-0"



MECHANICAL DESIGN, INC.
4403 Broad River Road
Columbia, S.C. 29210
(803) 731-9834
(803) 731-9837 FAX
CONTACT: Danny Wilds
DATE: 02/14/14 COMM. No. 133036

STEAM BOILER SCHEDULE ①												
MARK	CLEAVER BROOKS MODEL (2)	BOILER HP.	NATURAL GAS FIRING RATE	#2 FUEL OIL FIRING RATE	STEAM				FUEL-TO-STEAM EFFICIENCY	BLOWER MOTOR	ATOMIZING AIR COMPRESSOR	OIL PUMP MOTOR
					INPUT	LB5/HR	PRESS.	OPERATING PRESS.				
B-2	CBE200-800-1509T	800	32,659 MBH	233.3 GFH	32,659 MBH	27,600	150 PSIG	100 PSIG	83.5% @ 100% FIRING	75 HP	75 HP	1 HP
B-3	CBE200-800-1509T	800	32,659 MBH	233.3 GFH	32,659 MBH	27,600	150 PSIG	100 PSIG	83.5% @ 100% FIRING	75 HP	75 HP	1 HP

- ① UNIT TO MATCH AVAILABLE ELECTRIC SERVICE, SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS
- ② OR EQUAL BY JOHNSTON, SUPERIOR, OR APPROVED EQUAL.
- ③ ASME DESIGN PRESSURE

FURNISH WITH:

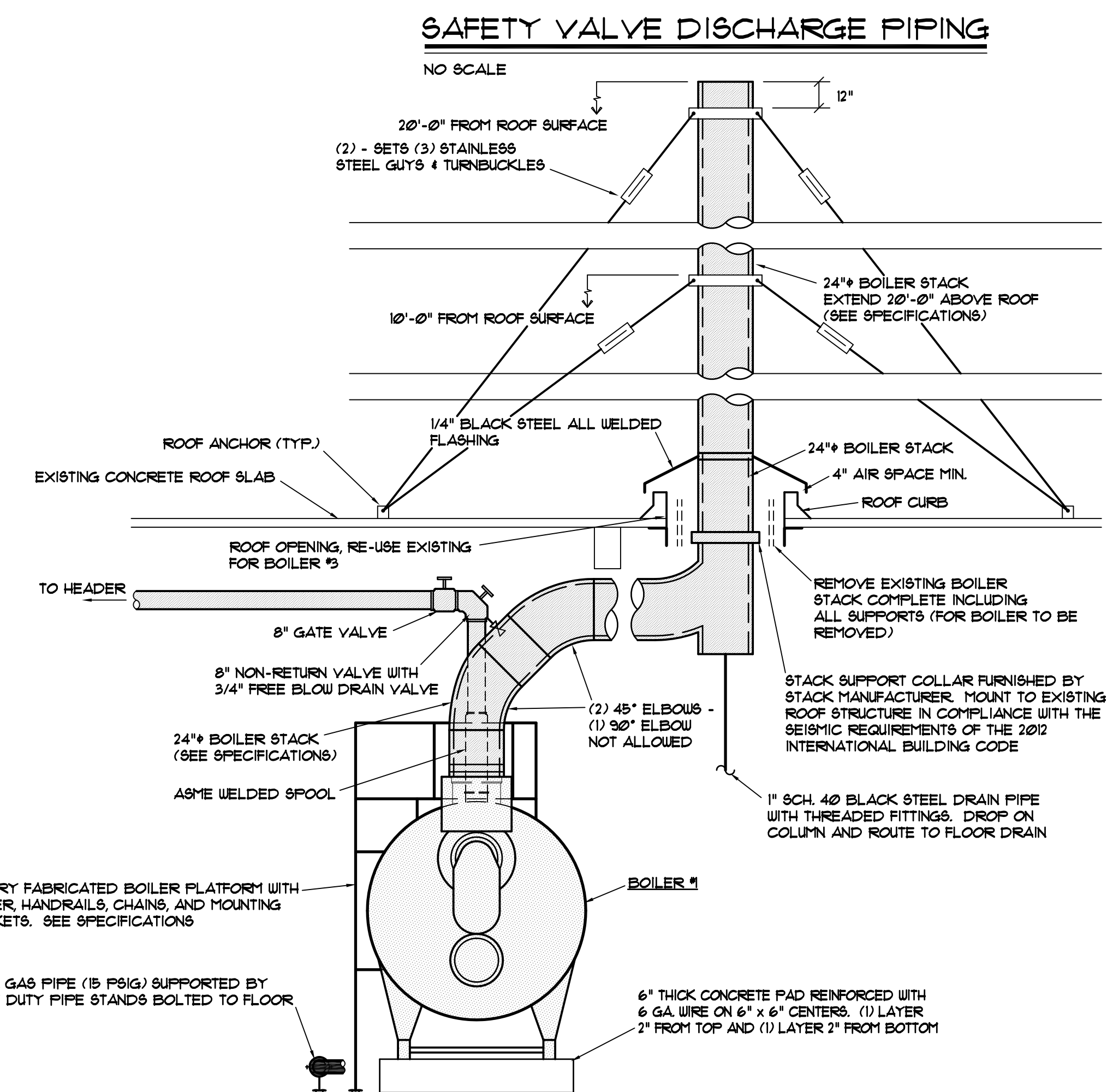
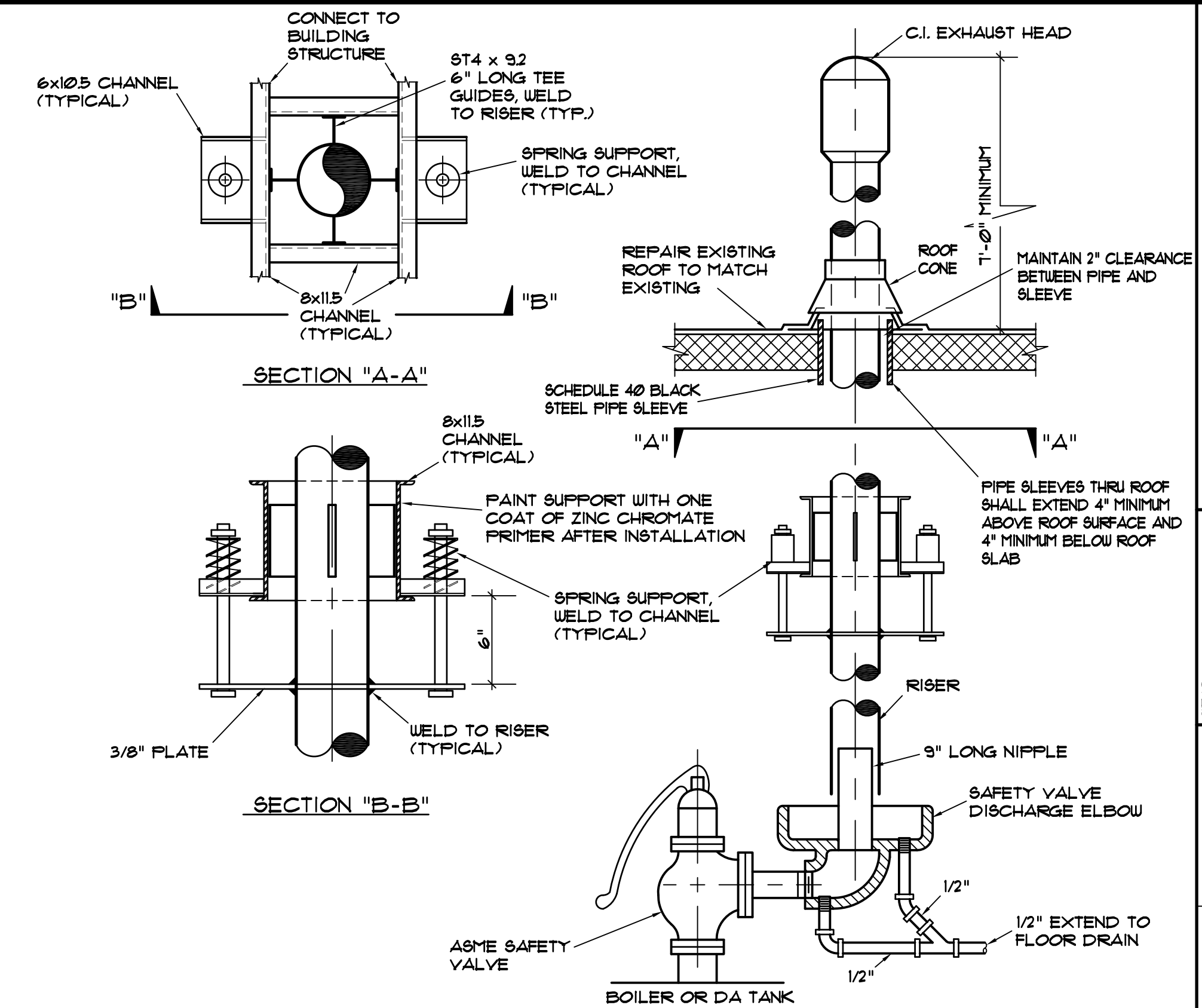
1. ASME STEAM HEADER SPOOL PIECE (FOR NR VALVE), 8"x6"x48"
2. MODULATING FEEDWATER VALVE AND LEVEL CONTROLLERS
3. NON-RETURN AND GATE VALVE WITH FREE BLOW DRAIN ON STEAM SUPPLY
4. PLC BASED MASTER PANEL TO INCORPORATE LEAD/LAG SYSTEM FOR BOILERS #1, #2, AND EXISTING BOILER #3
5. ONE YEAR TOTAL PARTS WARRANTY
6. FACTORY START-UP, SEE SPECIFICATIONS.
7. NATURAL GAS REGULATOR, 15 PSIG INLET
8. SEE SPECIFICATIONS

FUEL OIL PUMP SET						
CRITICAL FUEL SYSTEMS MODEL (2)	PUMP FLOW RATE (GFH)	DISCHARGE PRESS. (PSIG)	MOTORS	MOTOR SIZE (1)	INLET CONNECTION	OUTLET CONNECTION
LY1110	1,110	50	2	1 HP	1-1/2"	1-1/4"

- ① UNIT TO MATCH AVAILABLE ELECTRIC SERVICE, SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS
- ② SEE SPECIFICATIONS IN STEAM BOILER SECTION

NOTES
1. DO NOT SCALE DRAWINGS. VERIFY ALL REQUIRED INFORMATION IN FIELD BY VISITING SITE PRIOR TO SUBMITTING BID.
2. DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
3. WHENEVER THE WORD "PROVIDE" IS USED IT SHALL MEAN FURNISH AND INSTALL COMPLETE AND READY FOR USE.
4. ALL OPENINGS THRU EXISTING STRUCTURES SHALL BE CORE DRILLED.
5. ALL MATERIALS CALLED FOR TO BE REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER. ANY ITEM THE OWNER DOES NOT WISH TO KEEP SHALL BE REMOVED FROM THE SITE OF WORK.
6. PROVIDE ALL ITEMS OF MISCELLANEOUS STEEL AS REQUIRED FOR INSTALLATION OF ALL MECHANICAL ITEMS.
7. PIPING SYSTEMS SHALL BE DRAINED AS REQUIRED FOR INSTALLATION OF WORK.
8. PIPING SHALL BE KEPT CLEAN OF DEBRIS DURING INSTALLATION.
9. ALL NEW PIPE SIZES NOTED ON THE HVAC FLOOR PLANS SHALL BE VERIFIED AT THE PRE-BID/SITE VISIT.

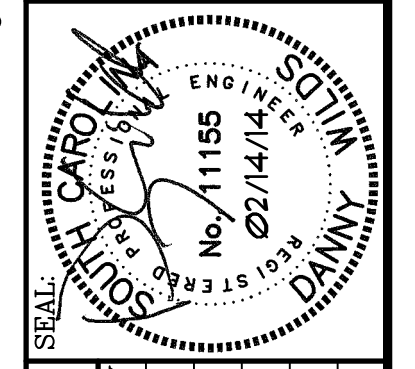
SYMBOLS	
	NEW MATERIAL
	MATERIAL TO BE REMOVED
	CONDENSATE DRAIN LINE (INSULATED)
	PIPE TURNING DOWN
	PIPE TURNING UP
	STEAM PIPE
	PUMPED CONDENSATE
	BOILER FEED PIPE
	BLOW-DOWN PIPE
	MAKE-UP WATER FROM WATER SOFTENER
	GATE VALVE
	2-WAY CONTROL VALVE
	BALANCING VALVE
	CHECK VALVE
	STRAINER
	RELIEF VALVE
	15 LB. NATURAL GAS LINE
	OPEN DURING NORMAL OPERATION
	CLOSED DURING NORMAL OPERATION
	CONNECT NEW TO EXISTING



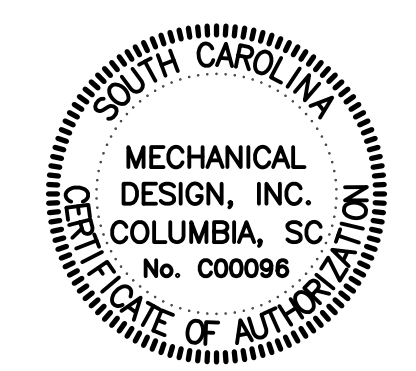
END ELEVATION VIEW - BOILER #1

APPROX. SCALE 1/4" = 1' - 0"

OFFICE OF
FACILITIES MANAGEMENT
COLUMBIA, SC 29208



PROJECT TITLE:	WEST ENERGY NO. 2 BOILER REPLACEMENT
PROJECT NO.:	S.C. STATE PROJ. NO. H
UNIVERSITY OF SOUTH CAROLINA	
CHECKED BY:	CDU
DATE:	02/14/14
DRAWN BY:	JPO
DATE:	
ORIG. BY:	BY
DATE:	
DRAWING:	MECHANICAL
DESCRIPTION:	
BUILDING:	40
REV:	



MECHANICAL DESIGN INC.
4403 Broad River Road
Columbia, S.C. 29210
(803) 731-9834
(803) 731-9837 FAX
CONTACT: Danny Wilds
DATE: 02/14/14
COMM. NO. 133036

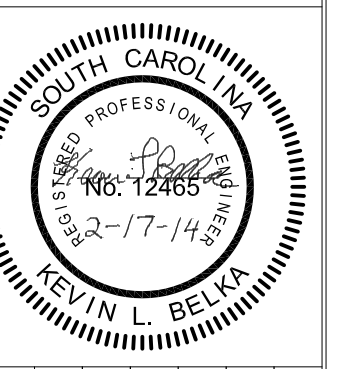
PROJECT TITLE:	WEST ENERGY NO. 2 BOILER REPLACEMENT
PROJECT NO.:	S.C. STATE PROJ. NO. H
UNIVERSITY OF SOUTH CAROLINA	
CHECKED BY:	CDU
DATE:	02/14/14
DRAWN BY:	JPO
DATE:	
ORIG. BY:	BY
DATE:	
DRAWING:	MECHANICAL
DESCRIPTION:	
BUILDING:	40
REV:	

SHEET:	M5
	OF 8
SHEET IN SET:	
	OF

DEMOLITION NOTES

1. REMOVE EXISTING DUPLEX RECEPTACLE INCLUDING RACEWAY AND CONDUCTORS BACK TO LAST J-BOX ON WALL.
2. DISCONNECT EXISTING PUMPS. CONTRACTOR MAY RE-USE EXISTING BRANCH CIRCUITS FOR RENOVATION AT HIS OPTION. SEE SHEET E3 NOTE 1.

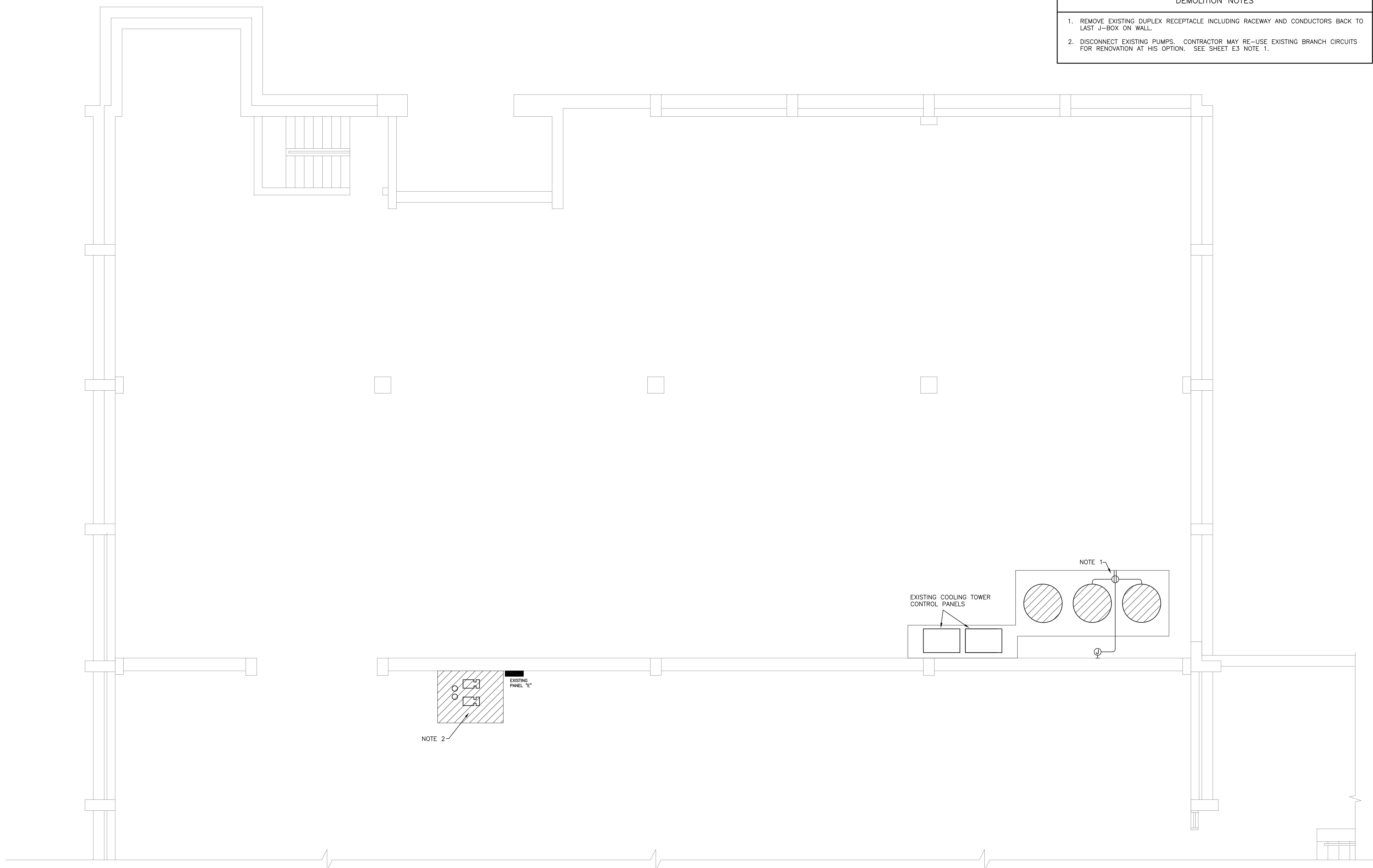
**OFFICE OF
FACILITIES MANAGEMENT**
COLUMBIA, SC 29208



BUILDING:	DRAWING:	DATE:	DRAWN BY:	CHECKED BY:
140	140	02/14/14	JJS	KLB
REV.	DESCRIPTION	DATE	ORIG. BY	DRAWN BY

PROJECT TITLE: WEST ENERGY BOILER REPLACEMENT
CP00357458/FM00445397

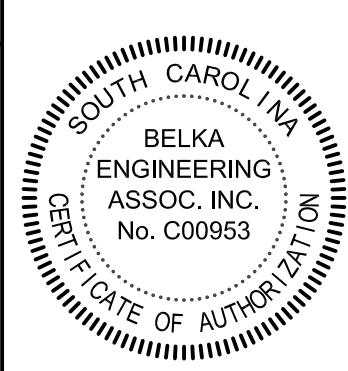
S.C. STATE PROJ. NO.
University of South Carolina



**WEST ENERGY FACILITY
LOWER LEVEL PARTIAL ELECTRICAL PLAN – DEMOLITION**
SCALE: 1/4" = 1'-0"



ELECTRICAL DRAWING INDEX	
E1	LOWER LEVEL PARTIAL ELECTRICAL PLAN – DEMOLITION
E2	MAIN LEVEL PARTIAL ELECTRICAL PLAN – DEMOLITION
E3	LOWER LEVEL PARTIAL ELECTRICAL PLAN – RENOVATION
E4	MAIN LEVEL PARTIAL ELECTRICAL PLAN – RENOVATION
E5	MAIN LEVEL PARTIAL ELECTRICAL PLAN – RENOVATION



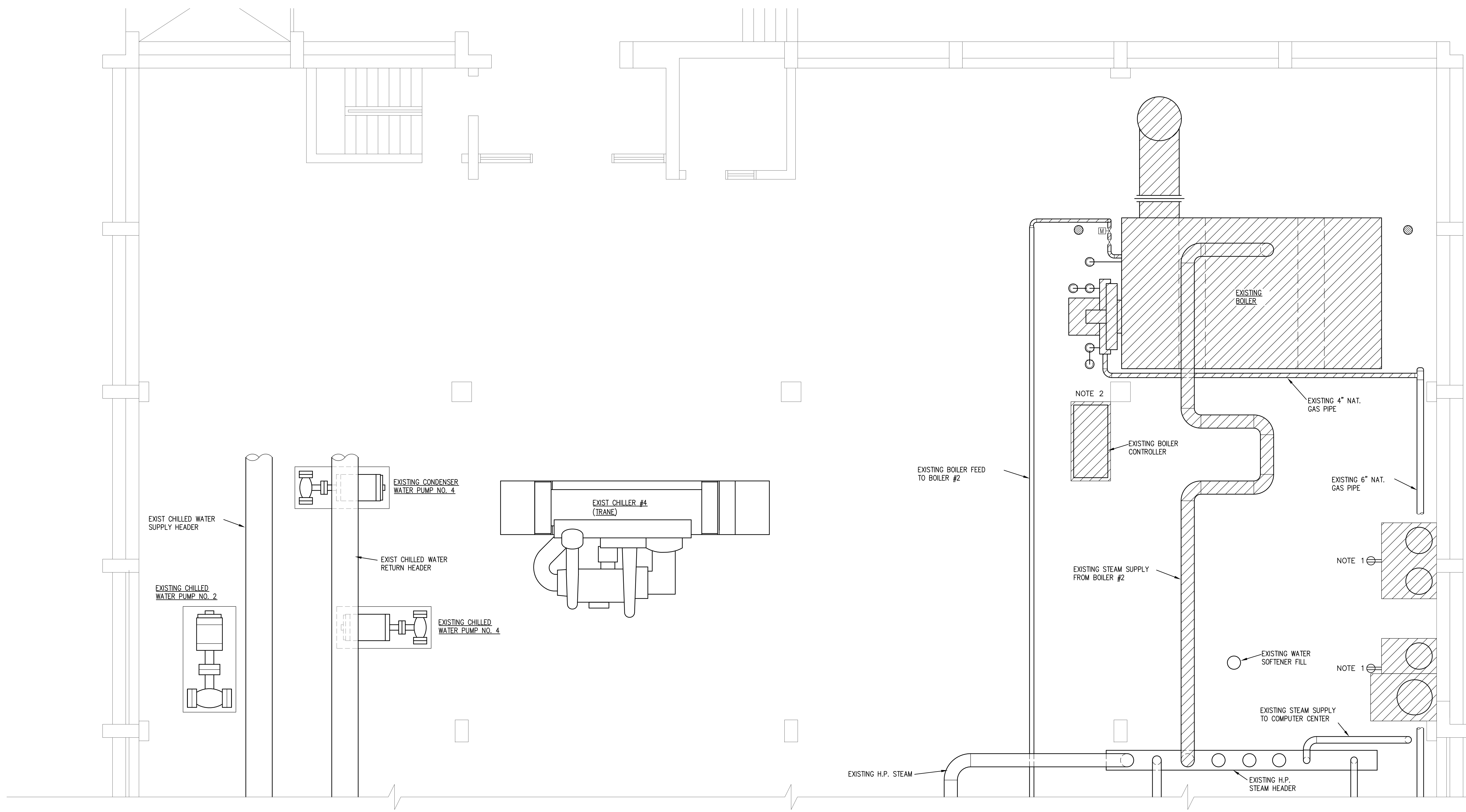
BEA BELKA ENGINEERING ASSOCIATES, INC.
7 CLUSTERS COURT, SUITE 201
COLUMBIA, SOUTH CAROLINA 29210
(803) 731-0650 fax (803) 731-2880
EMAIL: KBelka@bellsouth.net

US21316 SHEET:

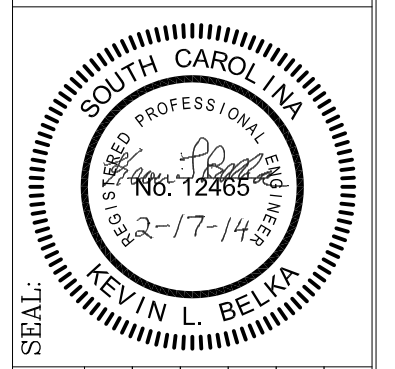
E1

DEMOLITION NOTES

1. REMOVE EXISTING DUPLEX RECEPTACLE (TYP. 2), INCLUDING RACEWAY AND CONDUCTORS BACK TO LAST J-BOX ON WALL.
2. REMOVE EXISTING FEEDER TO BOILER IN ITS ENTIRETY. MARK MCC BUCKET AS SPARE.



OFFICE OF FACILITIES MANAGEMENT
COLUMBIA, SC 29208



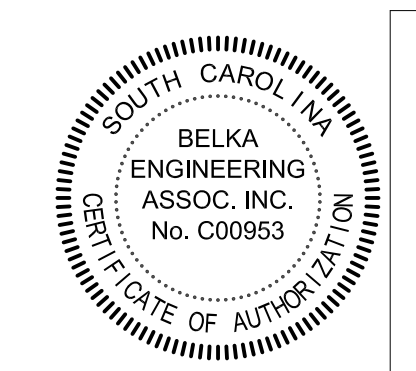
CHECKED BY:	KLB
ORIG. BY:	
DRAWN BY:	JJS
DATE:	02/14/14
DESCRIPTION:	
BUILDING:	140
REV.	

PROJECT TITLE: WEST ENERGY BOILER REPLACEMENT
CP00357458/FM00445397

S.C. STATE PROJ. NO.
University of South Carolina

WEST ENERGY FACILITY
MAIN LEVEL ELECTRICAL PLAN – DEMOLITION

SCALE: 1/4" = 1'-0"



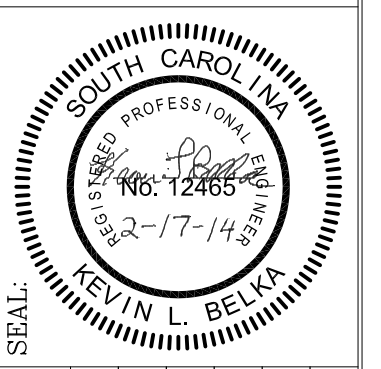
BEA BELKA ENGINEERING ASSOCIATES, INC.

7 CLUSTERS COURT, SUITE 201
COLUMBIA, SOUTH CAROLINA 29210
(803) 731-0650 fax (803) 731-2880
EMAIL: KBelka@bellsouth.net

RENOVATION NOTES

1. CONNECT NEW BOILER PUMPS USING EXISTING BRANCH CIRCUITS FROM BREAKERS IN EXISTING PANEL E VIA STARTERS AND DISCONNECTS FURNISHED BY MECH.

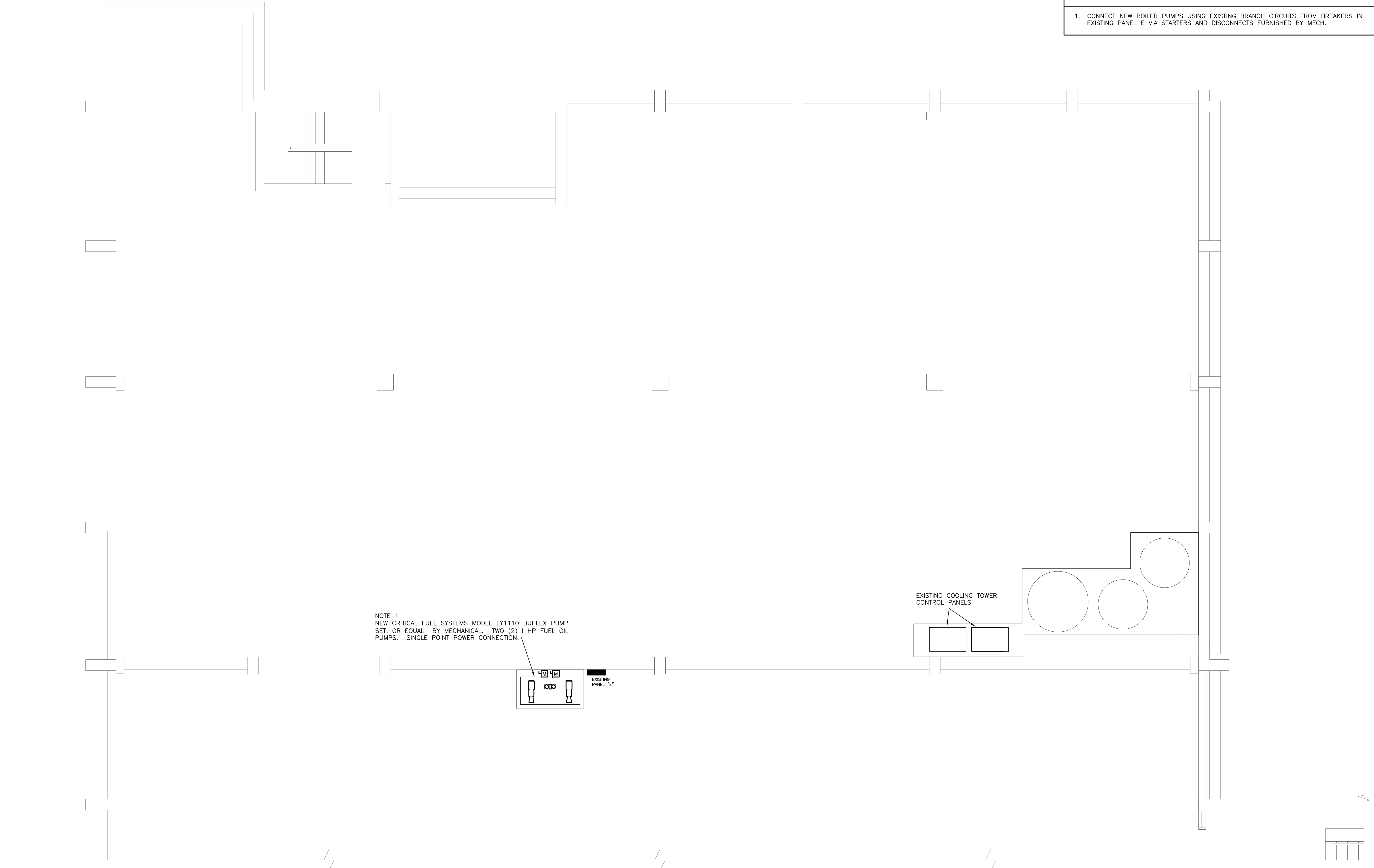
OFFICE OF
FACILITIES MANAGEMENT
COLUMBIA, SC 29208



REV.	DESCRIPTION	DATE	DRAWN BY	CHECKED BY

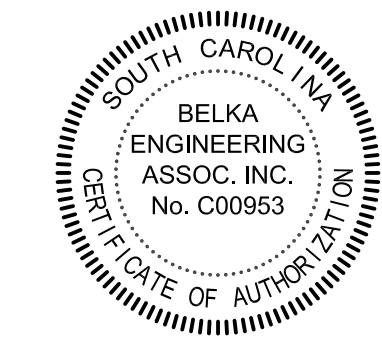
BUILDING: 140
DRAWING: 140
DATE: 02/14/14
PROJECT TITLE: WEST ENERGY BOILER REPLACEMENT
CP00357458/FM00445397
S.C. STATE PROJ. NO.
University of South Carolina

US21316 SHEET:
E3



NOTE 1
NEW CRITICAL FUEL SYSTEMS MODEL LY1110 DUPLEX PUMP SET, OR EQUAL BY MECHANICAL, TWO (2) 1 HP FUEL OIL PUMPS. SINGLE POINT POWER CONNECTION.

WEST ENERGY FACILITY
LOWER LEVEL ELECTRICAL PLAN – RENOVATION
SCALE: 1/4" = 1'-0"

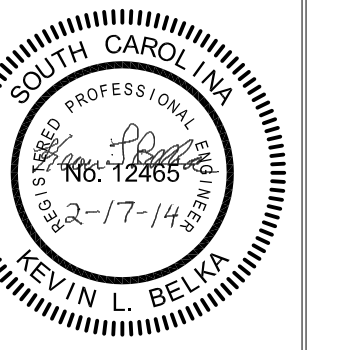


BEA BELKA ENGINEERING ASSOCIATES, INC.
7 CLUSTERS COURT, SUITE 201
COLUMBIA, SOUTH CAROLINA 29210
(803) 731-0650 fax (803) 731-2880
EMAIL: KBelka@bellsouth.net

RENOVATION NOTES

1. PROVIDE A 4" SQ BOX WITH TWO DUPLEX RECEPTACLES FED WITH 2-#12, #12 GND IN 3/4" EMT FROM EXISTING SPARE BREAKER 23 IN PANEL A. SEE NOTE 4 ON SHEET E5.
2. PROVIDE 3-3/0, #3 GND IN 2" C. FROM EXISTING MCC OR SWITCHBOARD TO SINGLE POINT CONNECTION POINT ON NEW BOILER. FIELD VERIFY EXACT LOCATION OF CONNECTION. PROVIDE BREAKER TO MATCH MOCP FOR EACH BOILER OR 200 AMP FUSIBLE SWITCH WITH FUSES TO MATCH MOCP. SEE NOTE 2 ON SHEET E5.

OFFICE OF
FACILITIES MANAGEMENT
COLUMBIA, SC 29908

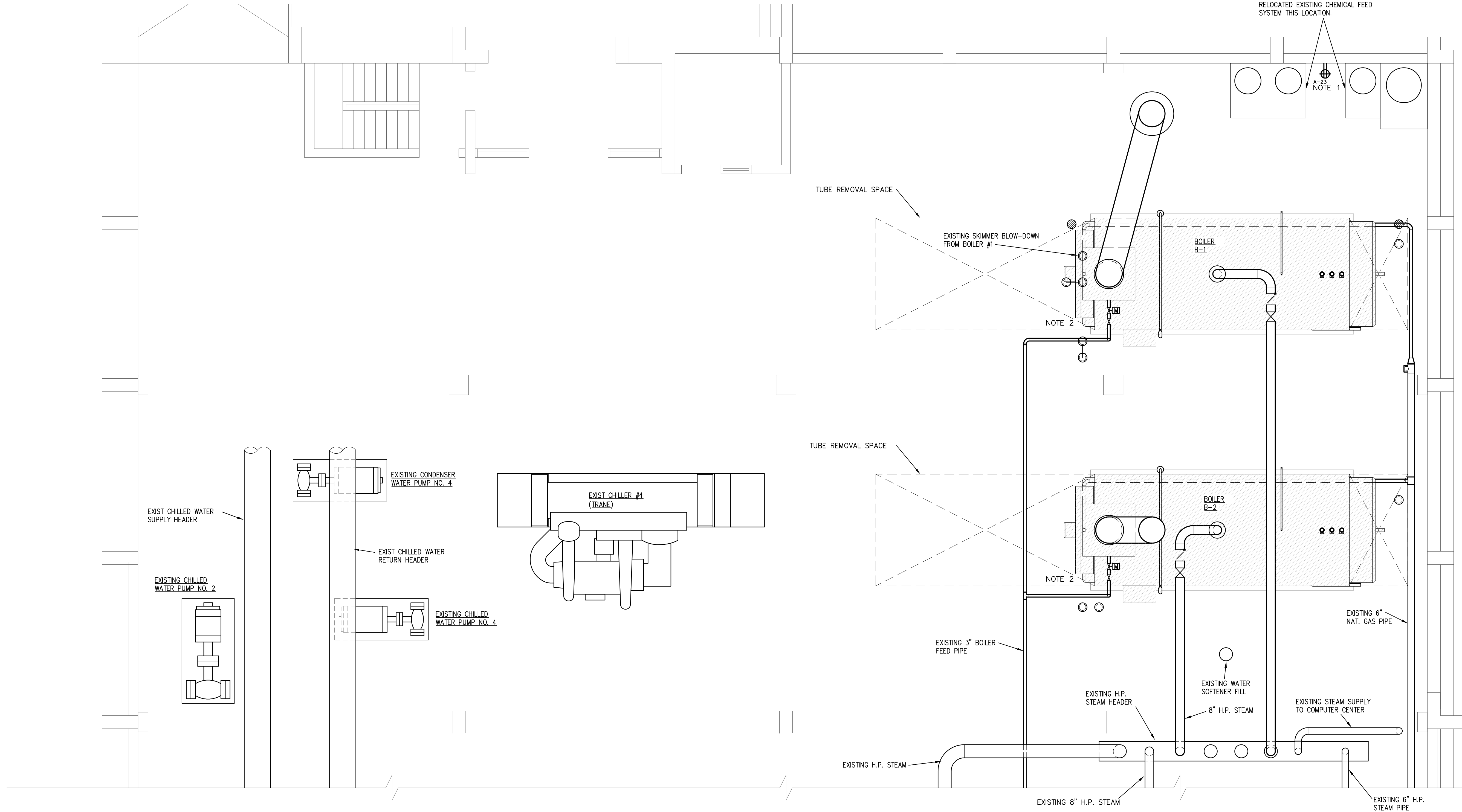


REV.	DESCRIPTION	DATE	DRAWN BY	CHECKED BY

PROJECT TITLE: WEST ENERGY BOILER REPLACEMENT
CP00357458/FM00445397

S.C. STATE PROJ. NO.
University of South Carolina

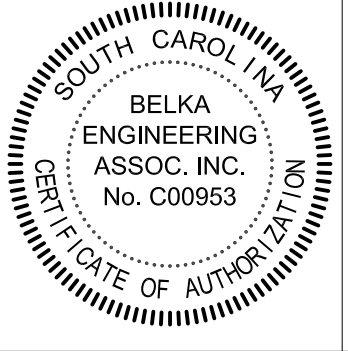
US21316 SHEET: E4



**WEST ENERGY FACILITY
MAIN LEVEL PARTIAL ELECTRICAL PLAN – RENOVATION**

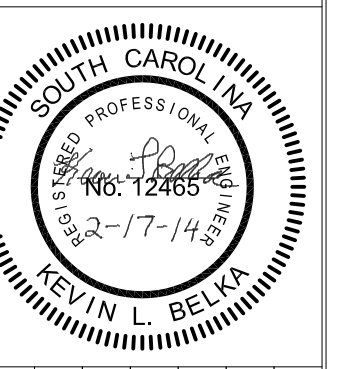
NORTH

SCALE: 1/4" = 1'-0"



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SEAL:	KEVIN L. BELKA
CHECKED BY:	KLB
ORIG. BY:	DR
DRAWN BY:	JJS
DATE:	02/14/14
DESCRIPTION:	
BUILDING:	140
REV.	

PROJECT TITLE: WEST ENERGY BOILER REPLACEMENT
CP00357458/FM00445397

S.C. STATE PROJ. NO.
University of South Carolina

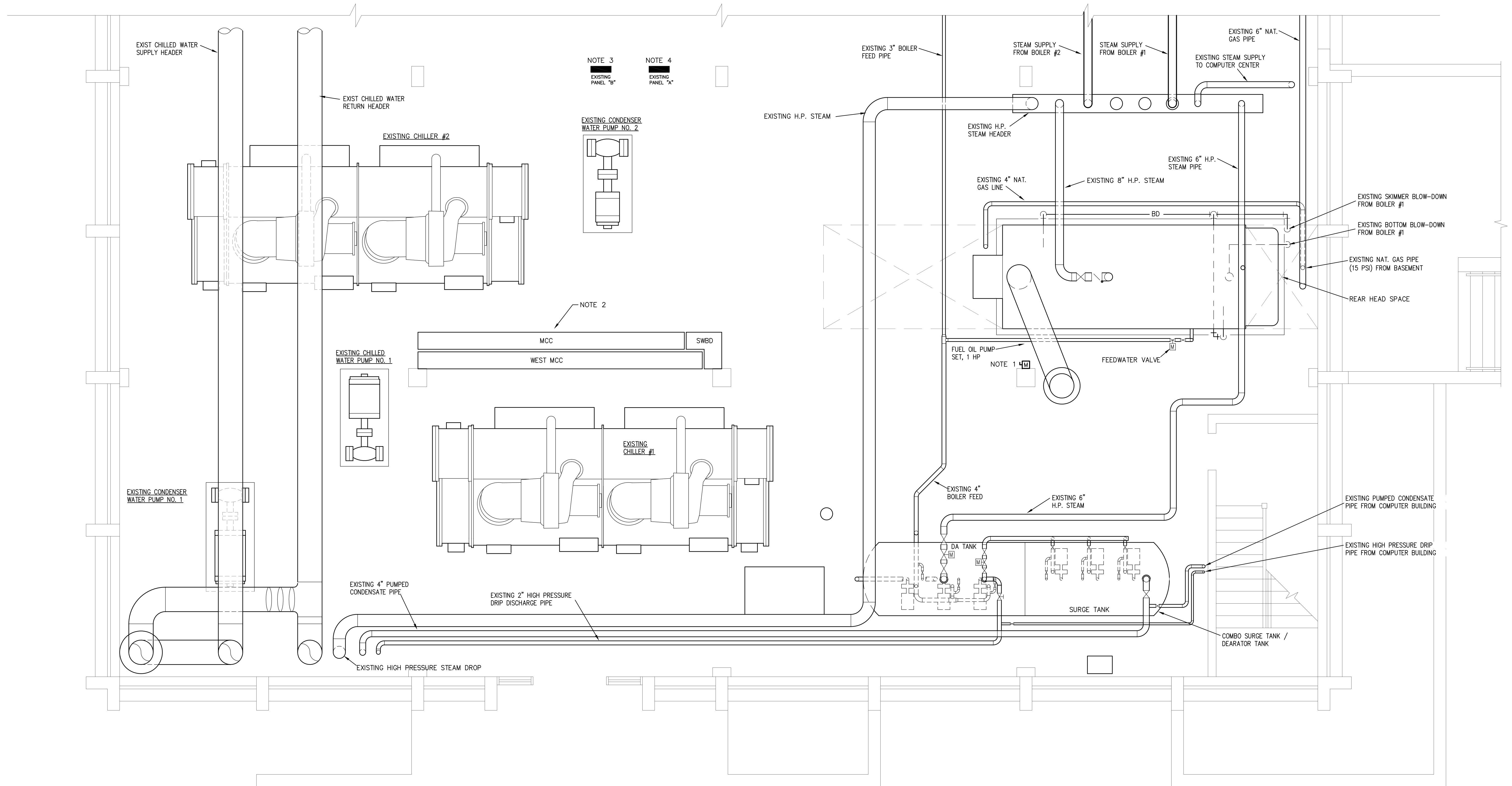


US21316 SHEET:

E5



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- RENOVATION NOTES**
1. PROVIDE CONNECTION TO NEW BOILER 3 FUEL OIL PUMP VIA LOCAL DISCONNECT AND STARTER FURNISHED BY MECHANICAL USING 3 #12, #12 GND IN 3/4" EMT FROM EXISTING 3 POLE 20 AMP BREAKER IN PANEL B.
 2. EXISTING BACK TO BACK MOTOR CONTROL CENTERS WITH L-SHAPED SWITCHBOARD. MCC IS WESTINGHOUSE SERIES 2100 480V 3PH 2000A SER # CHI 32496 FVC 000. WEST MCC IS A NEW MODEL WITH SEVERAL SPACES AVAILABLE. SWITCHBOARD IS ITE MODEL FC 26. FIELD VERIFY OPTIMAL CONNECTION POINT WITH USC DENNIS GALLAGHER 803-917-0340. PROVIDE NEW 200 AMP SWITCHES OR 200 AMP BREAKERS AS REQUIRED FOR NEW BOILER CIRCUITS.
 3. PANEL B IS A CUTLER-HAMMER PL2 480/277V 225A MLO WITH TWO 20 AMP TWO POLE SPARES AND 6 SINGLE POLE SPACES.
 4. PANEL A IS A SQUARE D NQ TYPE WITH SPARE 20 AMP SINGLE POLE BREAKERS IN POSITIONS 23,25.



WEST ENERGY FACILITY
MAIN LEVEL PARTIAL ELECTRICAL PLAN – RENOVATION

SCALE: 1/4" = 1'-0"