

REPLACE BOILER NO. 1 & 2

GUAM MEMORIAL HOSPITAL

850 GOVERNOR CARLOS CAMACHO ROAD TAMUNING, GUAM

RMT ENGINEERS, LLC
 MECHANICAL AND FIRE PROTECTION
 ENGINEERING SERVICES
 CONSTRUCTION MANAGEMENT SERVICES
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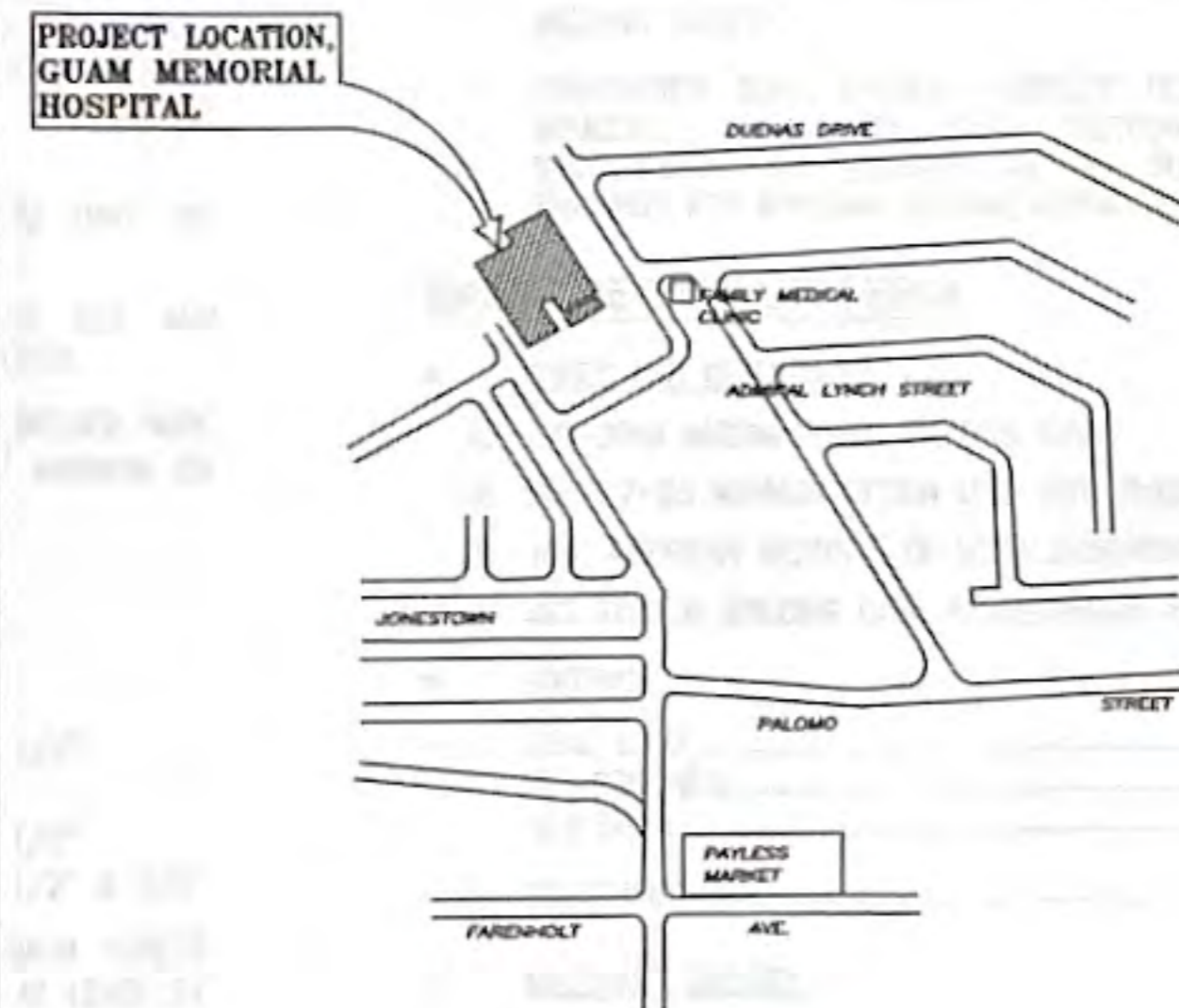


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 DATE: 10-23-24

LOCATION MAP
 NOT TO SCALE



VICINITY MAP
 NOT TO SCALE



GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNMENT LAWS, ORDINANCES, RULES & REGULATIONS. MECHANICAL WORK SHALL CONFORM WITH THE 2009 EDITION OF THE INTERNATIONAL MECHANICAL CODE, INTERNATIONAL BUILDING CODE, AND GUAM TROPICAL ENERGY CODE 2017.
- CONTRACTOR SHALL COORDINATE WORK WITH OTHER ONGOING CMHA PROJECTS.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN ON THE DRAWINGS BEFORE COMMENCING WORK. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTING OFFICER.
- DO NOT SCALE DRAWING EXCEPT FOR MATERIAL TAKE-OFFS. IF ADDITIONAL DIMENSIONS ARE REQUIRED OR THERE IS SOME DOUBT AS TO THE LOCATION OF A PARTICULAR ITEM, CONTACT THE CONTRACTING OFFICER.
- COORDINATE SEQUENCE OF WORK AND VERIFY SITE ACCESS FOR EQUIPMENT WITH CONTRACTING OFFICER.
- ANY DAMAGE TO EXISTING SURFACES OR FINISHES, CAUSED BY WORK IN ADJACENT AREAS MUST BE REPAIRED.
- CONTRACTOR SHALL VISIT SITE AND BECOME FAMILIAR WITH CONDITIONS AFFECTING WORK. NO ADDITIONAL ALLOWANCES WILL BE GRANTED BECAUSE OF LACK OF SUCH INFORMATION EXCEPT THAT RESULTING FROM LATENT CONDITIONS.
- OBTAIN ALL NECESSARY PERMITS, ARRANGE FOR INSPECTIONS, PROVIDE TESTS AND PAY FEES REQUIRED BY GOVERNING AGENCIES HAVING JURISDICTION OVER THIS WORK.
- LOCATION OF EQUIPMENT, ETC., IS APPROXIMATELY CORRECT. VERIFY EXACT LOCATION WITH CONTRACTING OFFICER.
- ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FOLLOWING ACCEPTANCE AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP.
- THE CONTRACTOR WILL COORDINATE THE REMOVAL OF EQUIPMENT FROM THE AFFECTED SPACE WITH F.M. DEPARTMENT AND WILL BE RESPONSIBLE FOR TRANSPORTING THE DISCARDED EQUIPMENT TO GSA FOR PROPER DISPOSAL.
- ITEMS THAT ARE DAMAGED BY THE CONTRACTOR DURING REMOVAL AND RELOCATION MUST BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.

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Project:
REPLACE BOILER NO. 1 & 2
GUAM MEMORIAL HOSPITAL
TAMUNING, GUAM

Title:
TITLE SHEET, LOCATION MAP, VICINITY MAP, INDEX OF DRAWINGS & GENERAL NOTES

Designed: RMT
 Drawn: EMM
 Checked: RMT
 Supr: RMT
 Scale: NONE

Date: OCT 23, 2024
 Project No: 61K2215
 AutoCAD File

Drawing No.
T-1
 Sheet No. 1 of 27

CIVIL/STRUCTURAL

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STRUCTURAL NOTES

GENERAL NOTES

- GENERAL NOTES AND TYPICAL STRUCTURAL DETAILS SHALL APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. FEATURES OF CONSTRUCTION SHOWN ARE TYPICAL AND SHALL APPLY GENERALLY THROUGHOUT FOR SIMILAR CONDITIONS.
- THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SHALL NOTIFY THE ENGINEER/ARCHITECT OF ANY DISCREPANCIES HE MAY FIND BEFORE PROCEEDING WITH THE WORK OR DURING CONSTRUCTION.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING THE WORK AMONG THE VARIOUS TRADES AS NECESSARY TO AVOID CONFLICT AND TO ENSURE THE INSTALLATION OF ALL WORK WITHIN THE AVAILABLE SPACE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM WITH THE LATEST APPLICABLE STANDARDS OR SPECIFICATIONS.
- IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ADEQUATE SHORING AND BRACING OF THE STRUCTURE FOR ALL LOADS THAT MAY BE IMPOSED DURING CONSTRUCTION.
- DO NOT SCALE DRAWINGS, CALLED-OUT DIMENSIONS AND STANDARD CODE REQUIREMENT SHALL GOVERN OVER UNSCALED DRAWINGS.

FORMWORK

- FORMS SHALL BE PROVIDED FOR ALL CONCRETE INDICATED UNLESS SPECIFIED OTHERWISE. FORMS SHALL BE SET TRUE TO LINE AND GRADE AND MAINTAINED SO AS TO ENSURE COMPLETED WORK WITHIN THE ALLOWABLE TOLERANCES SPECIFIED AND SHALL BE MORTAR TIGHT.
- FORMS AND THEIR SUPPORTS SHALL BE DESIGNED SO AS NOT TO DAMAGE PREVIOUSLY PLACES STRUCTURE.
- NO CONSTRUCTION LOAD SHALL BE SUPPORTED ON, NOR ANY SHORING REMOVED FROM ANY PART OF STRUCTURE UNDER CONSTRUCTION EXCEPT WHEN THAT PORTION OF THE STRUCTURE IN COMBINATION WITH THE REMAINING FORMING AND SHORING/BRACING SYSTEM HAS SUFFICIENT STRENGTH TO SUPPORT SAFELY ITS WEIGHT AND THE ADDITIONAL IMPOSED LOADS.
- FORMS SHALL BE REMOVED IN SUCH MANNER AS NOT TO IMPAIR SAFETY AND SERVICEABILITY OF THE STRUCTURE.

REINFORCING STEEL

- ALL REINFORCING BARS SHALL CONFORM TO BASIC DESIGN CRITERIA.
- ANY WELDING TO BE PERFORMED MUST HAVE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
- WELDING OF REINFORCING STEEL IS NOT PERMITTED UNLESS OTHERWISE SHOWN ON THE DRAWINGS. WELDING OF REINFORCING STEEL SHALL CONFORM TO AWS D1.4-79 AWS STRUCTURAL WELDING CODE -REINFORCING STEEL OF THE AMERICAN WELDING SOCIETY. REINFORCING STEEL WHICH IS WELDED SHALL CONFORM TO ASTM A 706. REINFORCING STEEL NOT CONFORMING TO ASTM A706 MAY BE USED IF MATERIAL PROPERTIES OF THE REINFORCING STEEL CONFORM TO AWS D1.4-79.
- REINFORCING BARS SHALL BE SPLICED $42d$ (d = BAR DIAMETER) ONLY AS INDICATED ON THE DRAWINGS.
- PROVIDE DOWELS IN FOOTINGS AND/OR GRADE BEAMS THE SAME SIZE AND SPACING AS COLUMN AND WALL REINFORCING, UNLESS OTHERWISE NOTED.
- WELDED WIRE FABRIC (WWF) SHALL CONFORM TO ASTM A-185. WELDED WIRE FABRIC IN SUSPENDED SLABS SHALL HAVE $F_y = 60$ KSI. LAP $12"$ MINIMUM OR TWO FULL MESH, WHICHEVER IS GREATER FOR SLABS ON GRADE.
- MINIMUM CONCRETE COVER FOR REINFORCING BARS SHALL BE:

CONCRETE CAST AGAINST EARTH	3"
EXPOSED TO EXTERIOR OR WEATHER	
#6 BAR THROUGH #18 BAR	2"
#5 BAR, W31 OR D31 WIRE, AND SMALLER	1 1/2"
SLAB ON GRADE	2"
COLUMNS & BEAMS	1 1/2"
STRUCTURAL SLABS TOP & BOT. (INTERIOR)	1 1/2" & 3/4"
- IN GENERAL, BAR SPLICES SHALL BE MADE AT POINTS OF MINIMUM STRESS. SPLICES SHALL BE SECURELY WIRING TOGETHER. STAGGER SPLICES AT LEAST $24"$ WHENEVER POSSIBLE IN BEAMS AND SLABS. SPLICE TOP BARS AT MIDSPAN AND BOTTOM BARS NEAR SUPPORT. SPLICE OF REINFORCEMENT SHALL BE MADE ONLY AS REQUIRED OR PERMITTED ON DESIGN DRAWINGS OR AS ALLOWED BY THE ACI CODE OR AS AUTHORIZED BY THE ENGINEER.
- ANCHOR BOLTS, DOWELS AND OTHER EMBEDDED ITEMS ARE TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS POURED.
- ALL REINFORCING BAR BENDS SHALL BE COLD BENT PER ACI 315.
- SHOP DRAWINGS: THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL PREPARED IN ACCORDANCE WITH ACI 315. INDICATE BENDING DIAGRAM, ASSEMBLY DIAGRAM, SPLICING AND LAPS OF RODS AND SHAPES DIMENSIONS AND DETAILS FOR REINFORCING BARS.

REINFORCED CONCRETE NOTES

- ALL CONCRETE SHALL DEVELOP A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT THE END OF 28 DAYS, AS SPECIFIED UNDER BASIC DESIGN CRITERIA.
- ALL CONCRETE WORK SHALL CONFORM TO THE LATEST CODE OF THE AMERICAN CONCRETE INSTITUTE (ACI 318-05).
- LOCATION OF ALL CONSTRUCTION OR CONTRACTION JOINTS MUST BE APPROVED BY THE ENGINEER/ARCHITECT.
- PIPES OR DUCTS EXCEEDING ONE THIRD OF THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED.
- REINFORCING BARS, ANCHOR BOLTS, AND OTHER INSERTS SHALL BE SECURED IN PLACE BEFORE POURING. CONCRETE BAR PLACEMENT AND SUPPORTS SHALL BE IN ACCORDANCE WITH THE RECOMMENDED ACI PRACTICE.
- ALL INSERTS, ANCHOR BOLTS, PLATES, ETC. TO BE EMBEDDED IN CONCRETE SHALL BE HOT DIP GALVANIZED UNLESS OTHERWISE NOTED.
- IN GENERAL, THE LATEST EDITION OF "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES" ACI 315, SHALL BE ADHERED.
- USE OF ADMIXTURE IS PERMITTED TO PRODUCE PROPER SLUMP AND WORKABILITY BUT SUBJECT TO THE ENGINEER'S APPROVAL. ADDITION OF WATER TO CONCRETE AT JOBSITE IS NOT ALLOWED.
- 48 HOURS PRIOR TO THE PLACEMENT OF ANY STRUCTURAL CONCRETE THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO AN INSPECTION CAN BE MADE ON ALL FORMS AND REINFORCING.

STRUCTURAL & LIGHT GAGE STEEL

- ALL STRUCTURAL MILL SECTIONS OR WELDED UP PLATE SECTIONS SHALL BE DESIGNED IN ACCORDANCE WITH AISC'S LATEST "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- COMPLY WITH AISC CODE AND SPECIFICATIONS FOR BEARING, ADEQUACY OF TEMPORARY CONNECTIONS AND ALIGNMENT.
- STEEL PLATES, SHAPES, BARS AND METAL FABRICATIONS: ASTM A-36
- ANCHOR BOLTS SHALL BE ASTM F1554, UNLESS OTHERWISE NOTED.
- ELECTRODES FOR WELDING: ASTM A233 E-70XX SERIES; COMPLY WITH AWS D1.0 CODE REQUIREMENTS.
- FLAME CUTTING AND WELDING SHALL BE DONE IN ACCORDANCE WITH LATEST "STANDARD CODE FOR WELDING IN BUILDING CONSTRUCTION OF THE AMERICAN WELDING SOCIETY".
- CONTRACTOR SHALL FURNISH COMPLETE DESIGN CALCULATIONS FOR ALL STEEL MEMBERS, CONNECTIONS AND ERECTION DRAWINGS FOR THE PROPER IDENTIFICATION AND ASSEMBLY OF ALL BUILDING COMPONENTS. SUBMIT SHOP DRAWINGS FOR APPROVAL BEFORE FABRICATION.

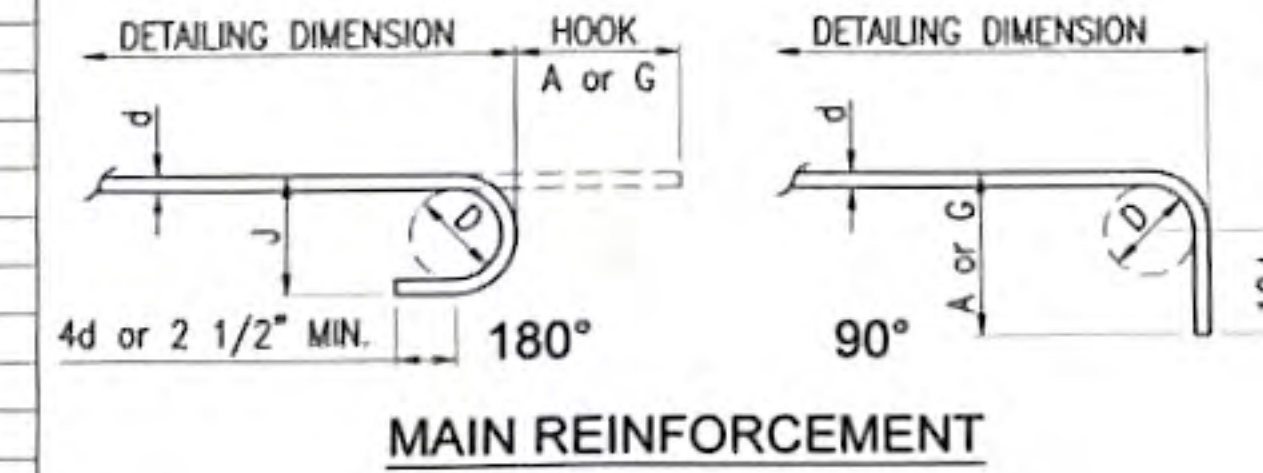
BASIC DESIGN CRITERIA

- A. CODES AND REFERENCES
- IBC-2009 INTERNATIONAL BUILDING CODE
 - ASCE 7-05 MINIMUM DESIGN LOAD FOR BUILDING & STRUCTURES
 - AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION 7th EDITION
 - ACI 318-08 BUILDING CODE REQUIREMENTS FOR REINF. CONCRETE
- B. LOADING
- DEAD LOAD ACTUAL
 - CONCRETE 150 pcf
 - STEEL 490 pcf
 - EQUIPMENT LOAD SEE PRODUCT DATA
- C. MATERIAL STRESSES
- STRUCTURAL STEEL (ASTM A-36)

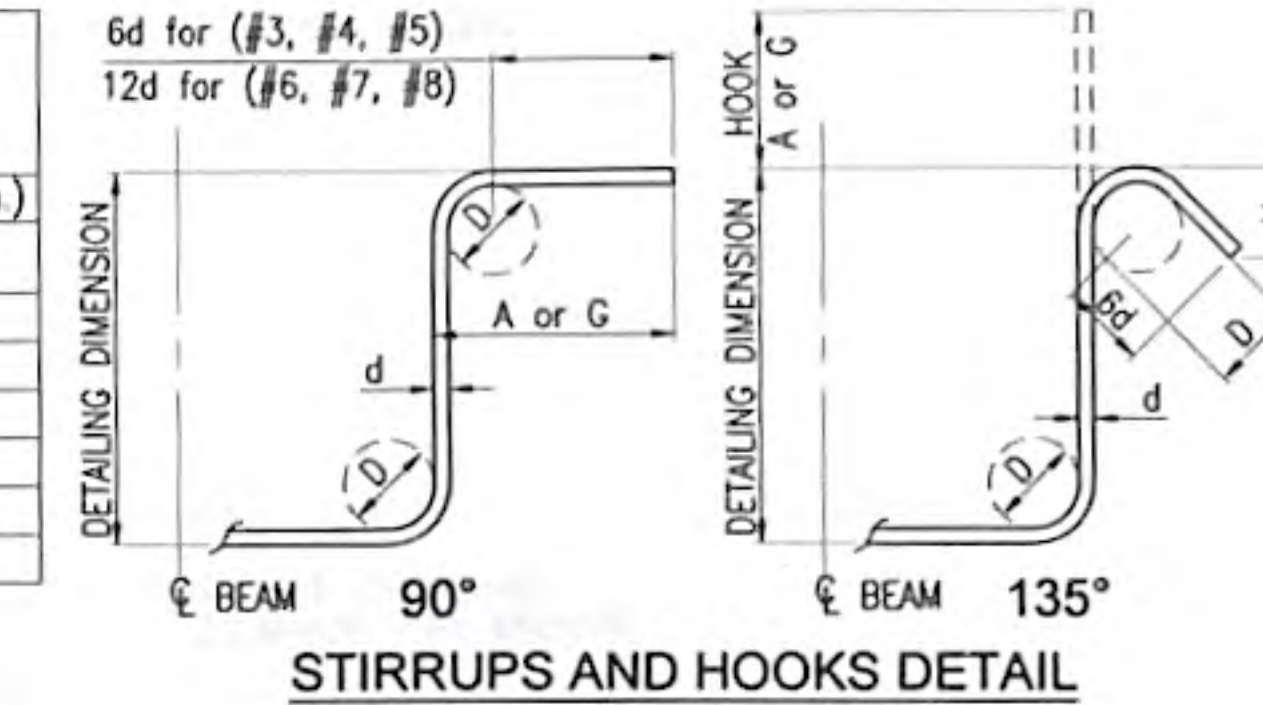
MINIMUM YIELD STRENGTH	$f_y = 36$ ksi
MINIMUM TENSILE STRENGTH	$f_y = 58$ ksi
 - BOLTS ASTM A325M $f_y = 60$ ksi (GALV.)
 - CAST-IN-PLACE CONCRETE $f_c' = 3,000$ psi
 - REINFORCING BARS ASTM A615

#4 AND SMALLER	GRADE 40
#5 AND LARGER	GRADE 60

RECOMMENDED END HOOKS ALL GRADES OF STEEL				
BAR SIZE	D (in.)	180° HOOKS (ft-in.)		90° HOOKS (ft-in.)
		A or G	J	A or G
#3	2-1/4	0-5	0-3	0-6
#4	3	0-6	0-4	0-8
#5	3-3/4	0-7	0-5	0-10
#6	4-1/2	0-8	0-6	1-0
#7	5-1/4	0-10	0-7	1-2
#8	6	0-11	0-8	1-4
#9	9-1/2	1-3	0-11 3/4	1-7
#10	10-3/4	1-5	1-1 1/4	1-10
#11	12	1-7	1-2 3/4	2-0
#14	18 1/4	2-3	1-9 3/4	2-7
#18	24	3-0	2-4 1/2	3-5



STIRRUP (TIES SIMILAR) STIRRUP/TIE HOOK DIMENSIONS ALL GRADES OF STEEL				
BAR SIZE	D (in.)	135° HOOKS (in.)		90° HOOKS (ft-in.)
		HOOK A or G	H (APPROX)	HOOK A or G
#3	1-1/2	4	2 1/2	0-4
#4	2	4-1/2	3	0-4 1/2
#5	2-1/2	5-1/2	3-3/4	0-6
#6	4-1/2	8	4-1/2	1-0
#7	5-1/4	9	5-1/4	1-2
#8	6	10-1/2	6	1-4



1 TYP. HOOKS & BEND DETAIL
SCALE: N.T.S.

TABLE OF LAP SPLICE AND ANCHORAGE LENGTH		
BAR SIZE	LAP SPLICE LENGTH	
	TYPE A	ANCHORAGE LENGTH L_{dh}
#3	24"	0'-6"
#4	24"	0'-8"
#5	27"	0'-10"
#6	32"	1'-0"
#7	37"	1'-2"
#8	42"	1'-4"
#9	48"	1'-6"

NOTE: NOT MORE THAN 50% OF THE BARS SHALL BE SPLICED WITHIN THE REQUIRED LAP LENGTH

2 SPLICE & ANCHORAGE TABLE
SCALE: N.T.S.

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No.	Description	Date

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Project:
REPLACE BOILER NO. 1 & 2
GUAM MEMORAIL HOSPITAL
TAMUNING, GUAM

Title:
STRUCTURAL NOTES & DETAILS

Designed: NCM
Drawn: RSS
Checked: NCM/JMC
Supv: JMC
Scale: AS SHOWN
Date: 10/25/24
Project No. 61K2215 AutoCAD File
Drawing No.

S0.1

Sheet No. 2 of 27

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REVISIONS		
No.	Description	Date

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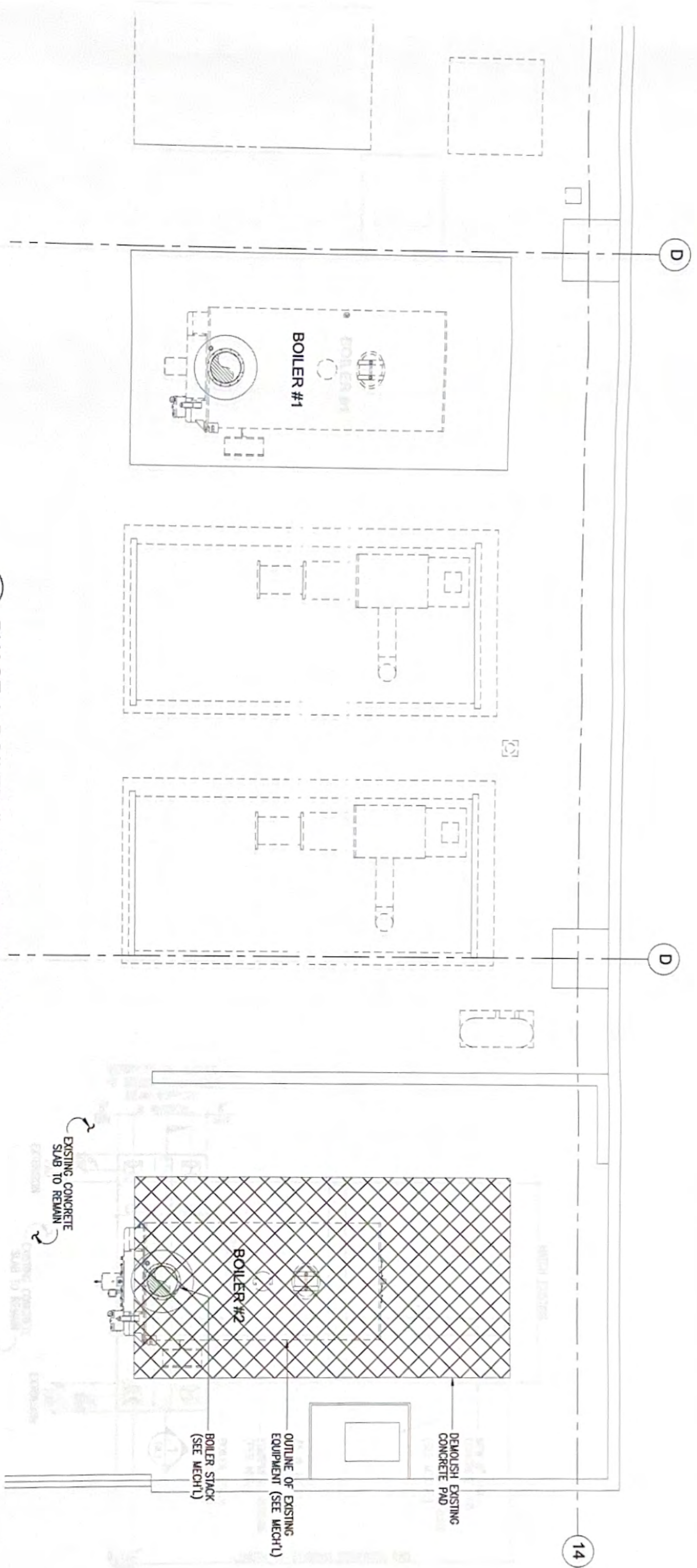
NC MACCARIO & ASSOCIATES, INC.
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Project: **REPLACE BOILER NO. 1 & 2 GUAM MEMORIAL HOSPITAL TAMPUNING, GUAM**

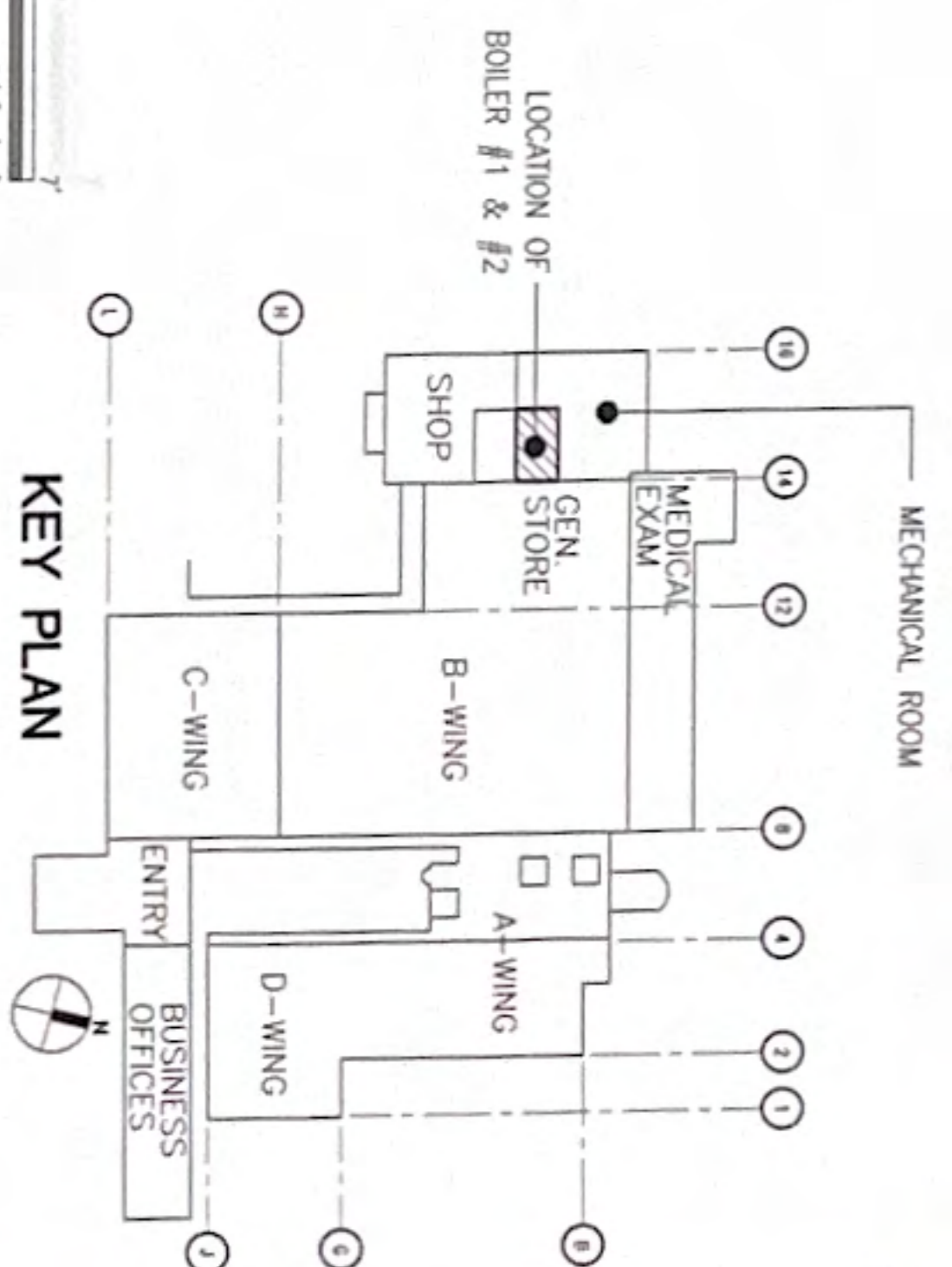
Title: **PHASE 1: BOILER #2 DEMOLITION PLAN**

Designed:	NCM
Drawn:	RSS
Checked:	NCM/JMC
Supv:	JMC
Scale:	AS SHOWN
Date:	10/25/24
Project No:	61K2215
Drawing No:	AUTOCAD File

Sheet No. **S1.1** of 27



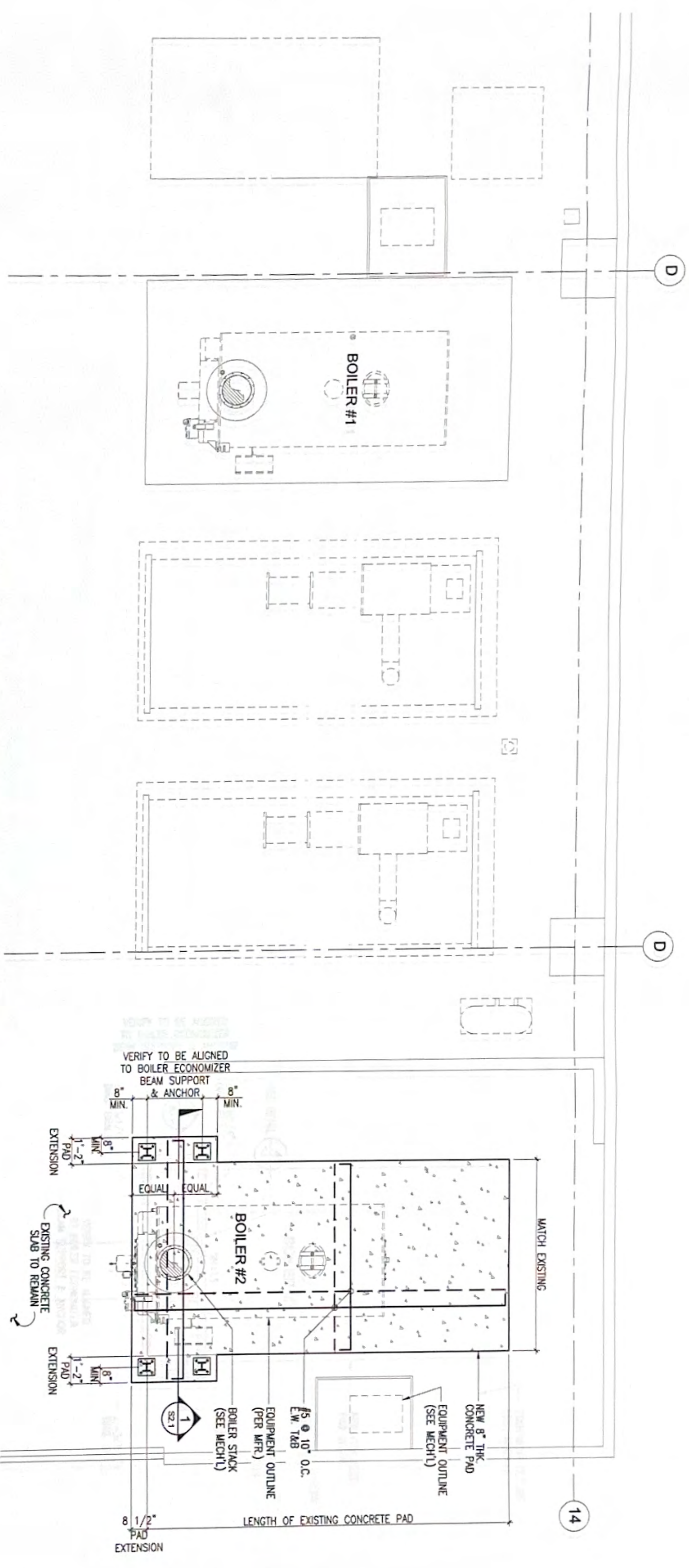
A PHASE 1: BOILER #2 DEMOLITION PLAN
 SCALE 3/8" = 1'-0"



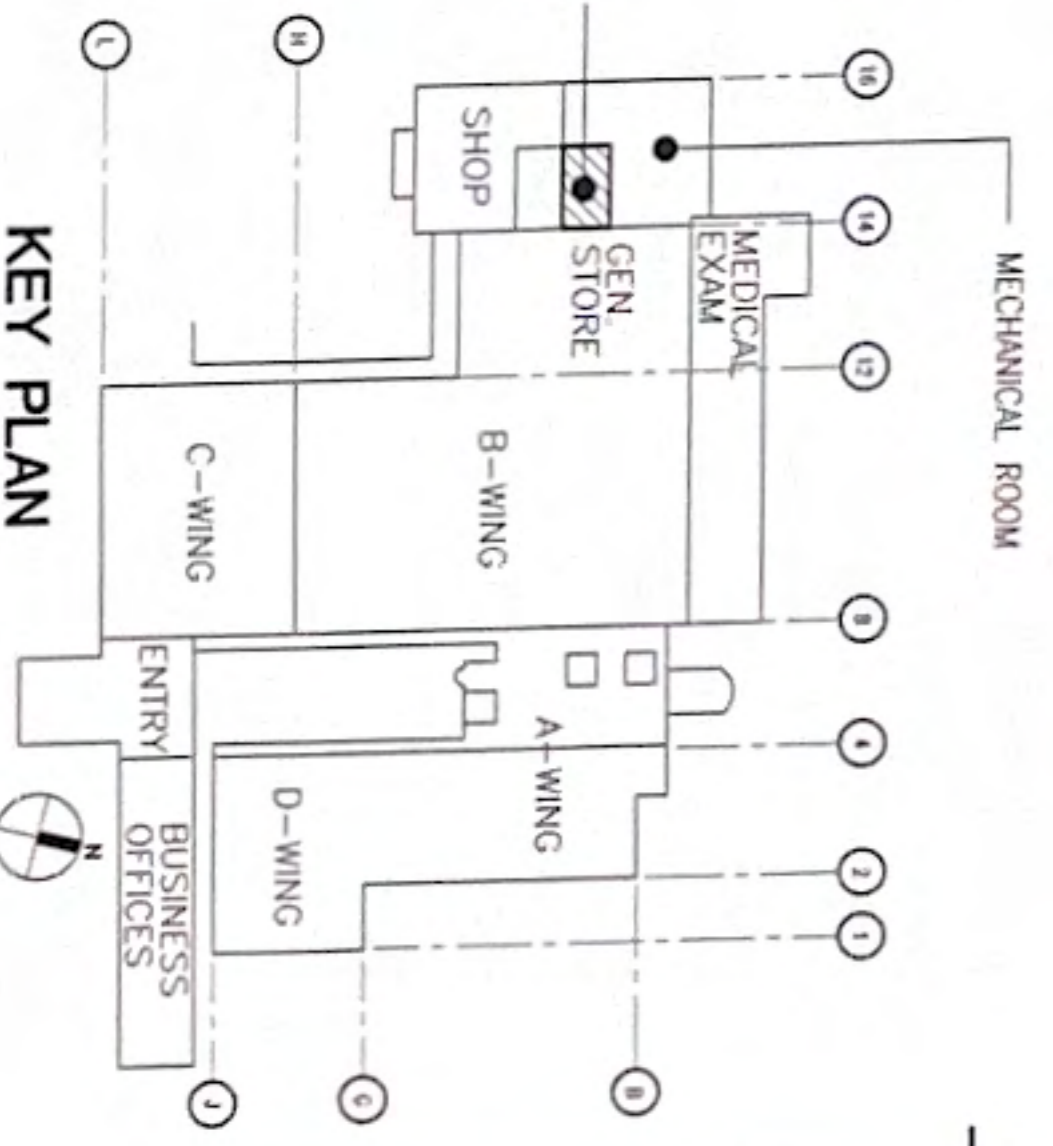
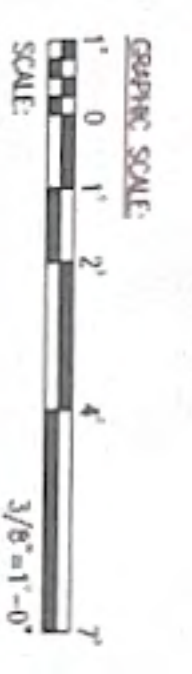
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PHASE 1: BOILER #2 FOUNDATION PLAN
 SCALE: 3/8" = 1'-0"



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Project:
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 NO. 1 & 2
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 HOSPITAL
 TAMUNING,
 GUAM

Title:
 PHASE 1: BOILER #2
 FOUNDATION PLAN

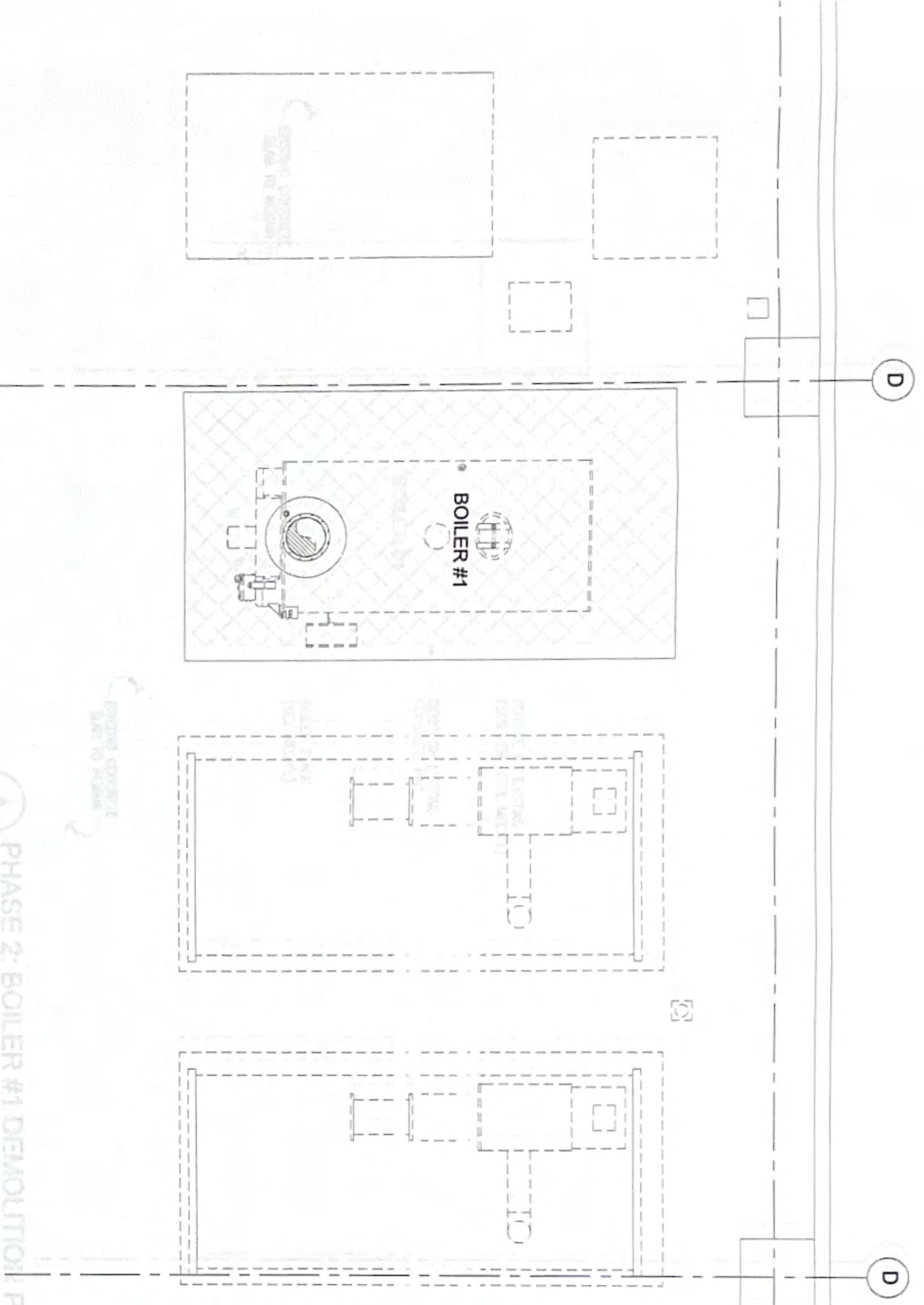
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Sheet No. 4 of 27
S1.2

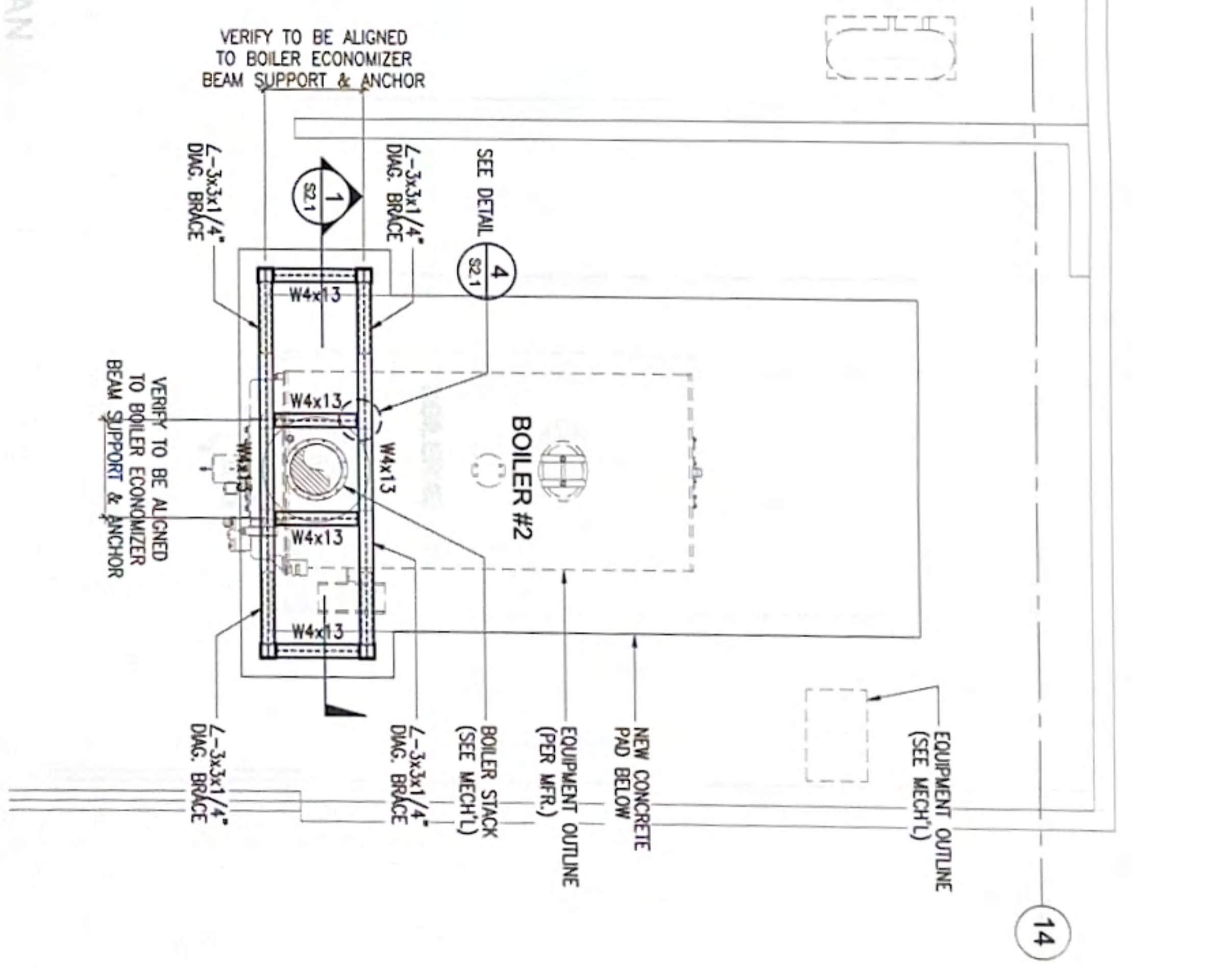
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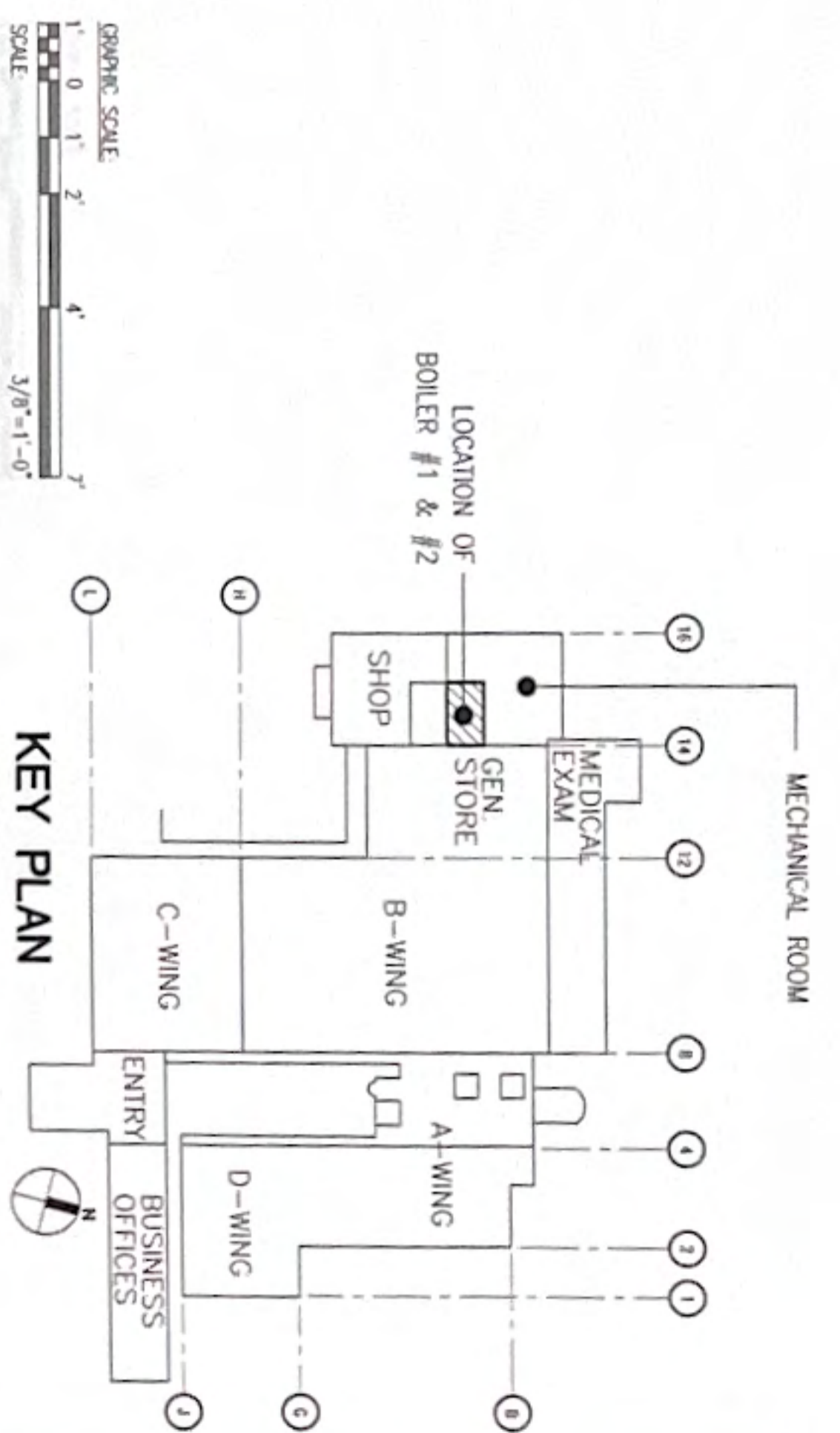
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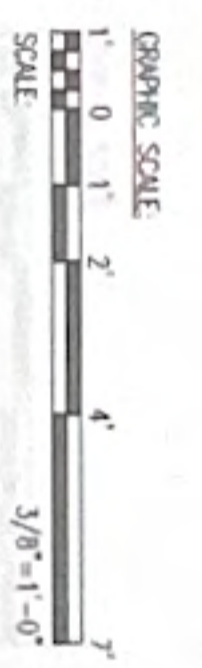
A PHASE 1: BOILER #2 ECONOMIZER SUPPORT PLAN
SCALE: 3/8" = 1'-0"



A PHASE 2: BOILER #1 DEMOLITION PLAN



KEY PLAN



No.	Description	Date

RMT ENGINEERS, LLC
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Email: office@ncmacaro.com

Project: **REPLACE BOILER NO. 1 & 2 GUAM MEMORIAL HOSPITAL TAMUNING, GUAM**

Title: **PHASE 1: BOILER #2 ECONOMIZER SUPPORT PLAN**

Designed: **NCM**

Drawn: **RSS**

Checked: **NCM/JMC**

Supr: **JMC**

Scale: **AS SHOWN**

Date: **10/25/24**

Project No: **61K2215**

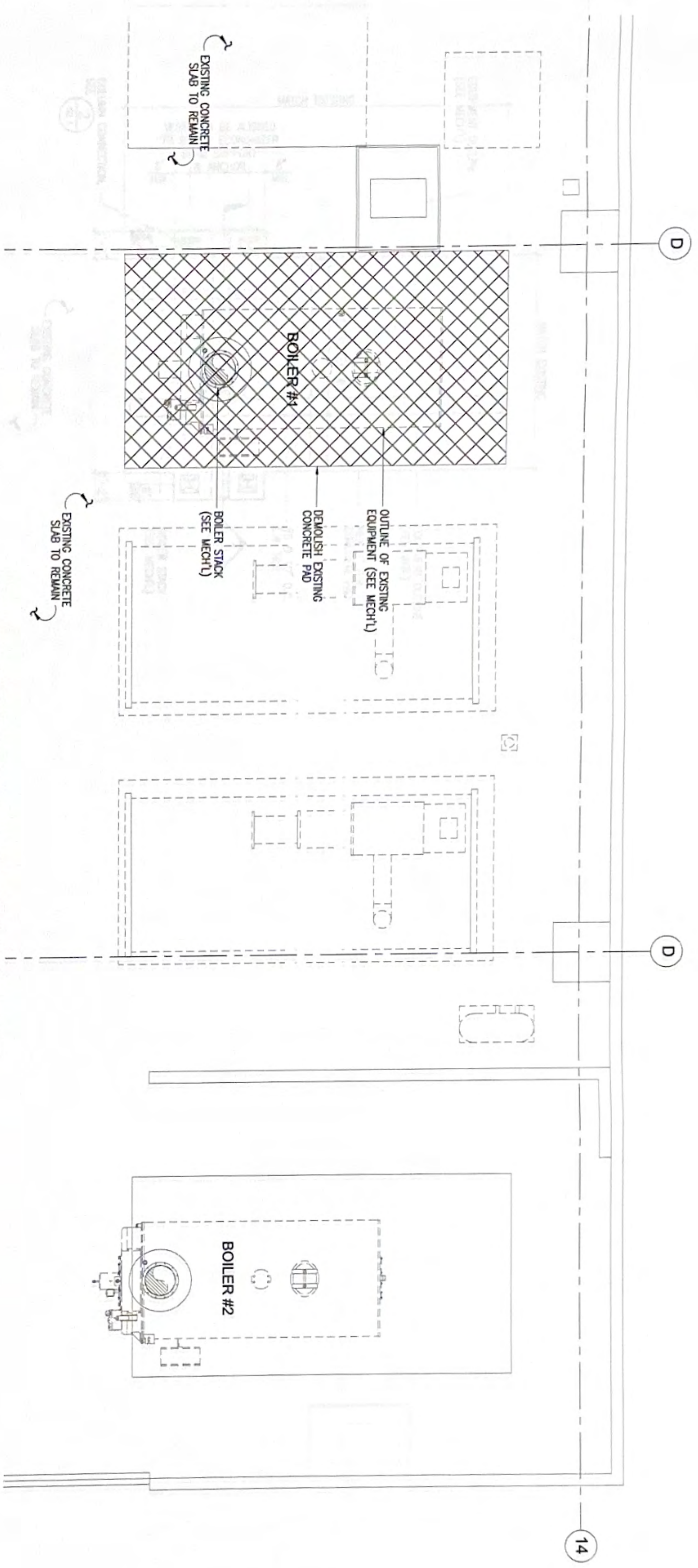
Drawing No: **S1.3**

Sheet No. **5** of **27**

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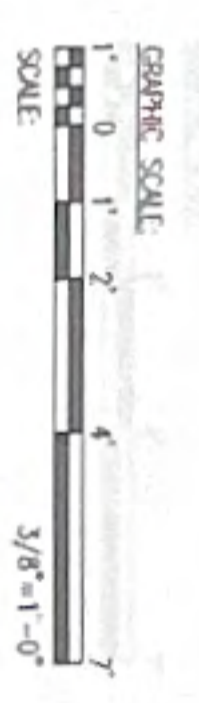
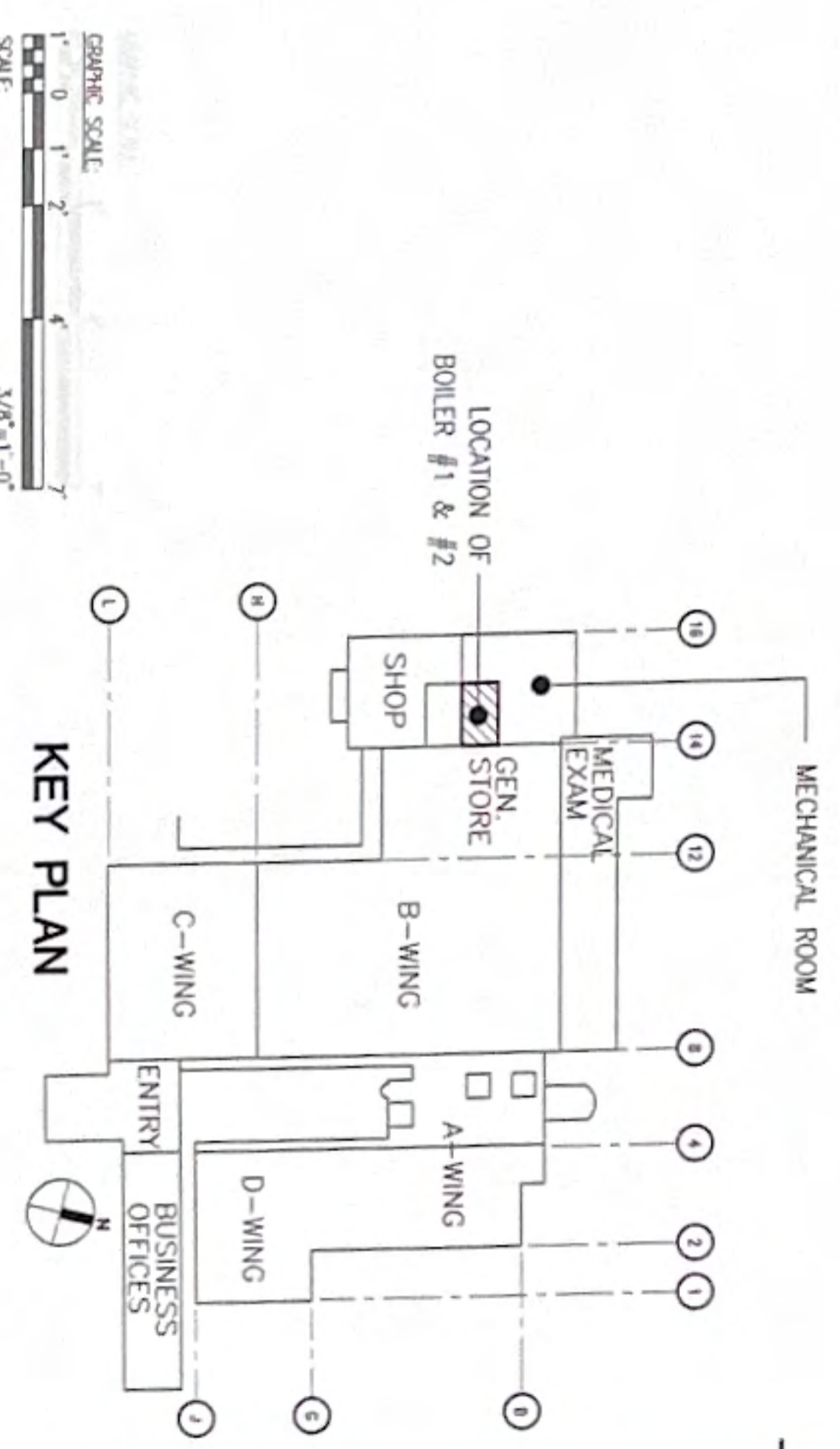
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A PHASE 2: BOILER #1 DEMOLITION PLAN
 SCALE: 3/8" = 1'-0"

A SCALE: BOILER #1 FOUNDATION PLAN
 3/8" = 1'-0"



REVISIONS		
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RMT ENGINEERS, LLC
 MECHANICAL AND FIRE PROTECTION
 DEMOLITION MANAGEMENT SERVICES
 P.O. BOX 6833, TAMUNING, GUAM 96931
 TEL: (671) 939-0789
 Email: admin@rmteng.com



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION
 DATE: 10/23/2014

NC MACCARDO & ASSOCIATES, INC.
 P.O. Box 764 Hagatna, Guam 96205
 Tel: 646-0941/46 Fax: 646-0901
 Email: office@ncmacardo.com

Project: **REPLACE BOILER NO. 1 & 2 GUAM MEMORIAL HOSPITAL TAMUNING, GUAM**

Title: **PHASE 2: BOILER #1 DEMOLITION PLAN**

Designed: NCM
 Drawn: RSS
 Checked: NCM/JMC
 Supv: JMC
 Scale: AS SHOWN
 Date: 10/25/24
 Project No: 61K2215
 Drawing No: AutoCAD File

REVISIONS		
No.	Description	Date

RMT ENGINEERS, LLC
 MECHANICAL AND FIRE PROTECTION
 ENGINEERING SERVICES
 CONSTRUCTION MANAGEMENT SERVICES
 P.O. BOX 6463, TAMUNING, GUAM 96931
 P.O. BOX 4111, (0771) 999-0798
 Email: rmt@rmtengineers.com



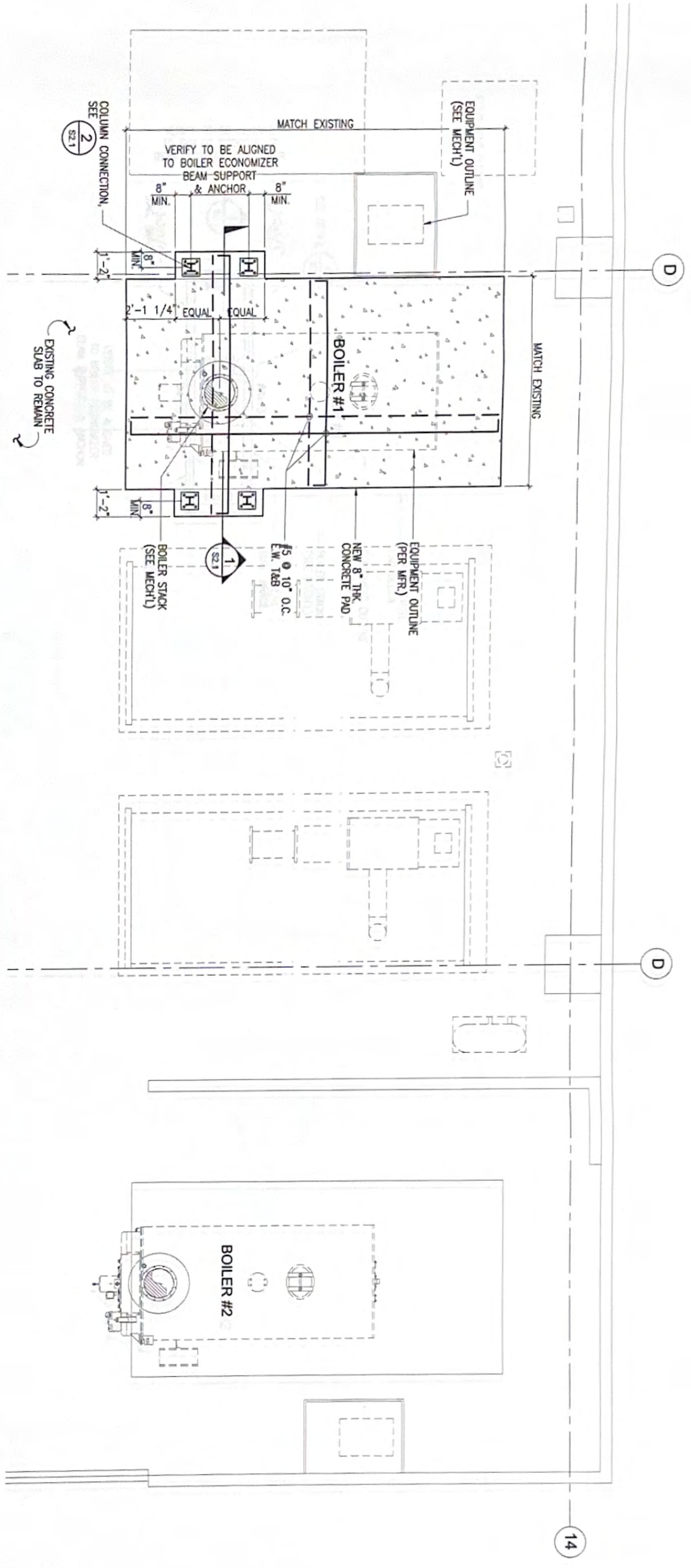
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.
 DATE: 10/25/24

NC MACARIO & ASSOCIATES, INC.
 P.O. Box 784, Tamuning, Guam 96932
 Tel: 646-6947/48 Fax: 646-0501
 Email: office@ncmacario.com

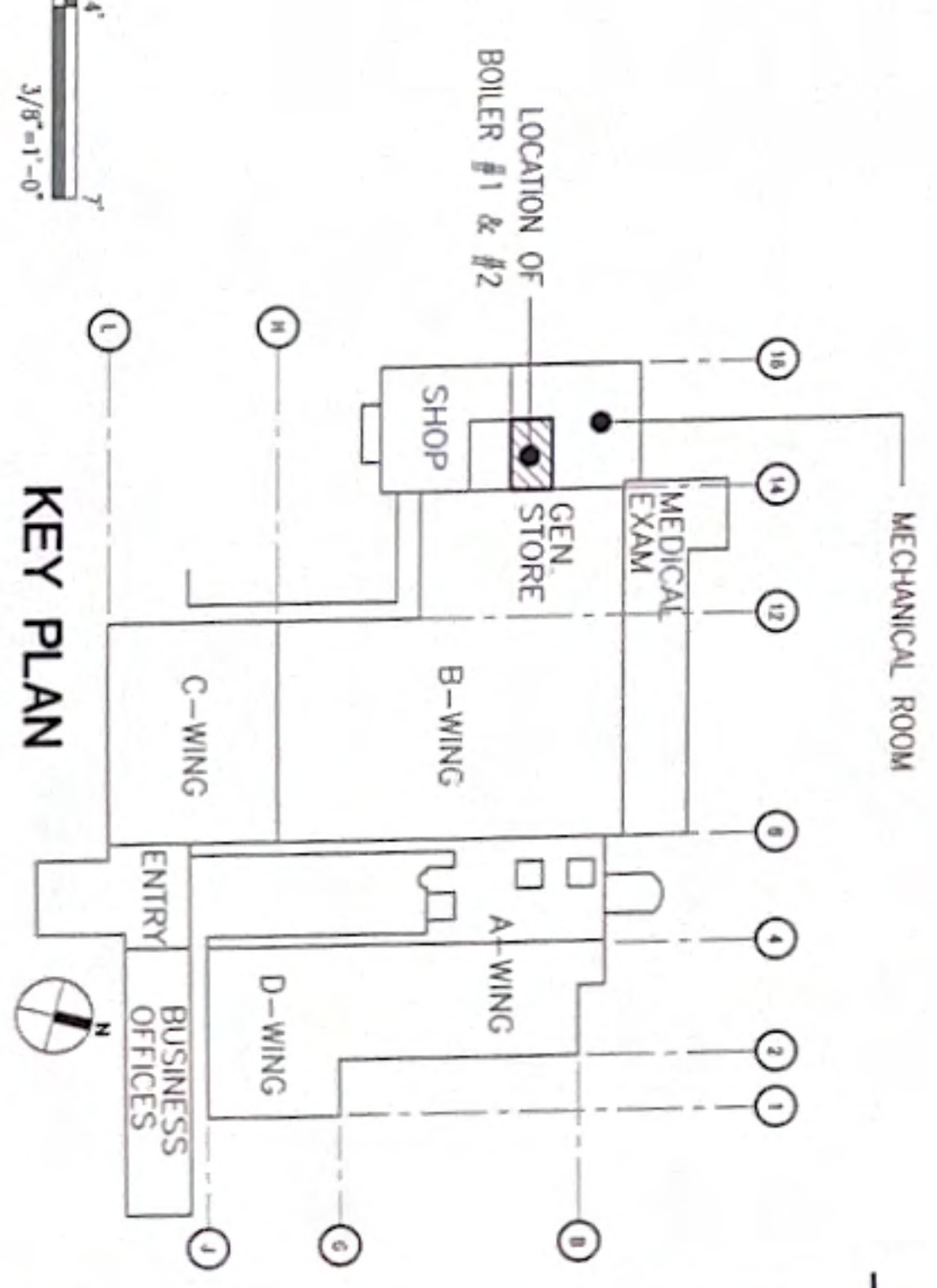
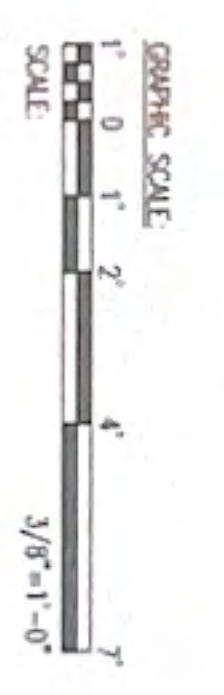
Project: **REPLACE BOILER NO. 1 & 2**
GUAM MEMORIAL HOSPITAL TAMUNING, GUAM

Title: **PHASE 2: BOILER #1 FOUNDATION PLAN**

Designed:	NCM
Drawn:	RSS
Checked:	NCM/JMC
Supr:	JMC
Scale:	AS SHOWN
Date:	10/25/24
Project No:	61K2215
Drawing No:	AutoCAD File



PHASE 2: BOILER #1 FOUNDATION PLAN
 SCALE: 3/8" = 1'-0"



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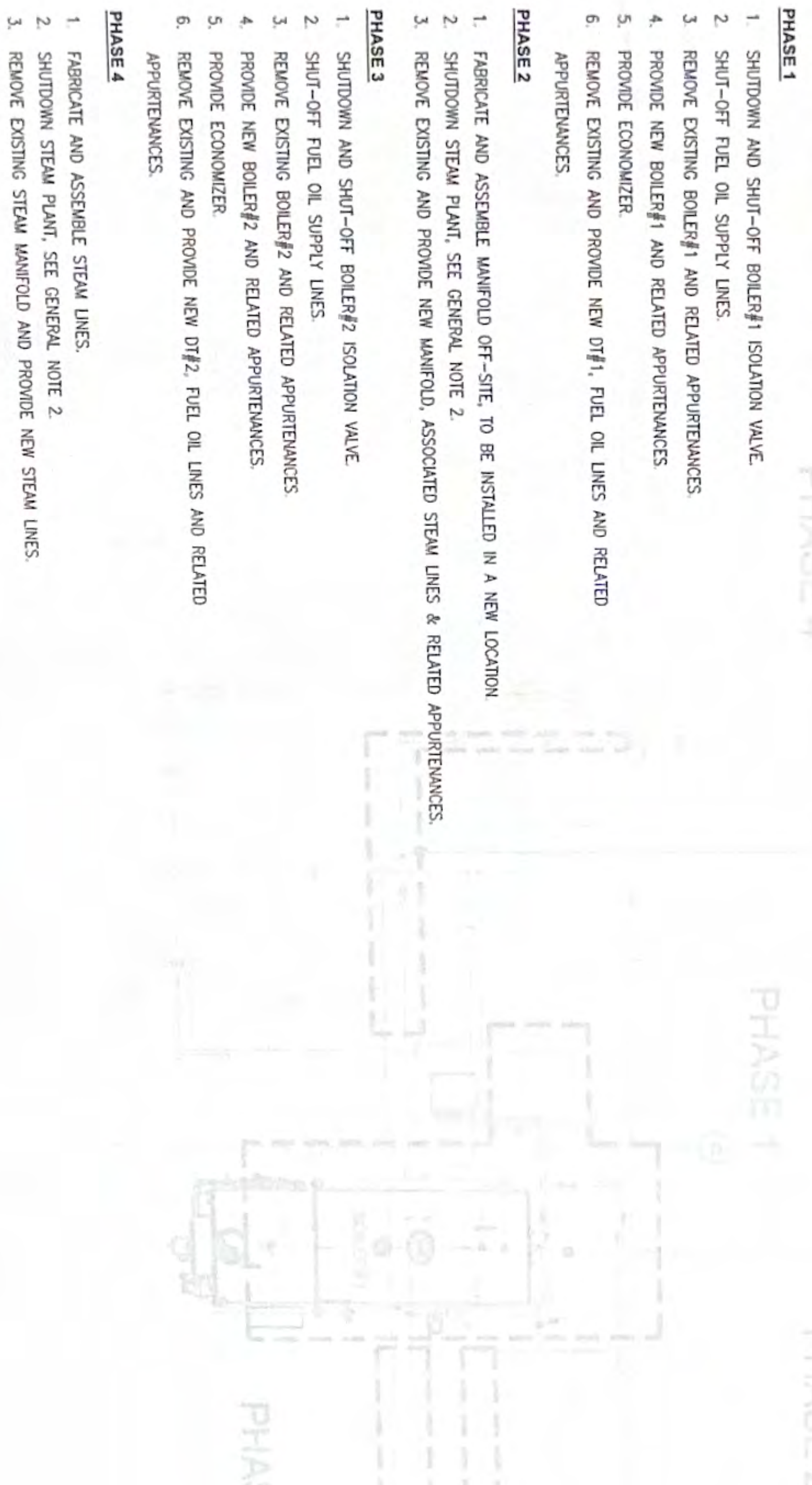
BOILER SCHEDULE

MARK	MANUFACTURER	MODEL NO.	SERVICE LOCATION	INPUT		RATINGS		PIPE CONNECTIONS		RUE GAS CONNECTION		POWER SUPPLY CHARACTERISTICS		OPERATING WEIGHT (LBS)	REMARKS		
				MECH PLANT	HOSPITAL PLANT	INPUT MSH	OUTPUT MSH	EFFICIENCY %	WATER CONSUMPT GALS	BOILER WATER SUPPLY RETURN	GAS IN	VOLTS	PHASE			HERTZ	
BOILER#1	CLENER BROOKS	GBE-100-125-150S1	HOSPITAL PLANT	MECH PLANT	5,230	4,184	82	825	6	6	1-1/2	16	460	3	60	13,900	(1)(2)(3)(5)
BOILER#2	CLENER BROOKS	GBE-100-125-150S1	HOSPITAL PLANT	MECH PLANT	5,230	4,184	82	825	6	6	1-1/2	16	460	3	60	13,900	(1)(2)(3)(5)

NOTES: BOILER MANUFACTURER MODEL WILL BE OR APPROVED EQUAL. RECOMMEND TO HAVE A LOCAL REPRESENTATIVE IN GUAM WILL HAVE ADVANTAGED.

(1) VENTING SHALL BE CATEGORY I OR CATEGORY II WITH COMBUSTION AIR DAMPER.
 (2) INSTALL BOILER IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTION AND SHALL MEET CODE REQUIREMENTS.
 (3) PROVIDE WITH 16" DIA. STANDARD ECONOMIZER (CLENER BROOKS).
 (4) WITH 5 HP BLOWER MOTOR, INTEGRAL BURNER AND CONTROLS.
 (5) COMMON VENTING SHALL BE IN ACCORDANCE WITH PUBLISHED MANUFACTURER'S INSTALLATION INSTRUCTIONS.

PHASING PLAN:



LEGEND:

SYMBOL	ABBREVIATION	DESCRIPTION
	BV	BALL VALVE
	CL	CONDENSATE LINE
	CP	COUPLING
	CW	COLD WATER LINE
	FOR	FUEL OIL RETURN LINE
	FOS	FUEL OIL SUPPLY LINE
	FW	FEED WATER LINE
	GV	GLOBE VALVE
	GV	GATE VALVE
	PG	PRESSURE GAGE WITH PIG TAIL AND GAGE COCK
	PRV	PRESSURE REDUCING VALVE
	PRV	PRESSURE RELIEF VALVE
	S	STEAM LINE
	V	VENT LINE
	VTR	VENT THRU ROOF
	Y-S	Y-STRAINER
	BOILER#1	PACKAGED STEAM BOILER NO. 1
	CHWS	CHILLED WATER SUPPLY LINE
	CHWR	CHILLED WATER RETURN LINE
	DT#1	PACKAGED FUEL DAY TANK NO. 1
	HWC	HOT WATER GENERATOR
	GFCI	GOVERNOR-FURNISHED CONTRACTOR INSTALLED FLOAT & THERMOSTATIC STEAM TRAP
	F&T	MAKE-UP WATER POINT OF CONNECTION
	LW	LOW PRESSURE CUT-OFF POINT
	POC	HIGH PRESSURE CUT-OFF POINT
	COP	CUT-OFF POINT

DESCRIPTION OF WORK:

- REMOVE EXISTING AND PROVIDE NEW PACKAGED STEAM BOILER #1 AND #2. COMPLETE WITH RELATED COMPONENTS AND APPURTENANCES.
- REMOVE EXISTING AND PROVIDE NEW MODIFY STEAM PIPING OF BOILER #1 & #2.
- REMOVE EXISTING AND PROVIDE NEW BOILER STACK WITH STANDARD ECONOMIZER AND RELATED APPURTENANCES. ECONOMIZER SIZE TO MATCH EXISTING VENT STACK. PROVIDE FLOOR MOUNTED DEDICATED STRUCTURAL SUPPORT SIZED TO CARRY ECONOMIZER AND STACK WEIGHT.
- REMOVE EXISTING AND PROVIDE NEW DOUBLE WALL PACKAGED FUEL DAY TANK#1 & 2 WITH SPILL CONTAINMENT SYSTEM.
- REMOVE EXISTING AND PROVIDE NEW FUEL PIPING FROM PACKAGED DAY TANKS TO BOILERS.
- REMOVE EXISTING AND PROVIDE NEW FUEL PUMPS AND STRAINERS.
- INSULATE ALL NEW STEAM LINES THAT WILL BE PROVIDED UNDER THIS WORK.
- ALL NEW VALVES ON FEED WATER, CONDENSATE AND STEAM LINES MUST BE TAGGED WITH BRASS PLATES OR DISKS CHAINED TO VALVES. PROVIDE FRAMED VALVE SCHEDULE TO BE MOUNTED IN THE MECHANICAL ROOM LOCATION AS DIRECTED BY OMA PROJECT MANAGER.

GENERAL NOTES:

- THE CONSTRUCTION WORK ACTIVITIES SHALL BE PERFORMED IN A MANNER AS TO NOT NEARLY IMPACT THE EXISTING OPERATION OF FACILITY. THE WORK SHALL BE ORGANIZED AND PHASED SUCH THAT BOILER#1 REMAINS OPERATIONAL AND AVAILABLE WHILE NEW BOILER#2 IS BEING REPLACED. AFTER THE NEW BOILER#2 AND APPURTENANCES HAVE BEEN INSTALLED, TESTED AND COMMISSIONED, CERTIFIED READY AND COMPLETE FOR OPERATION, BOILER#1 SHALL BE TAKEN OFFLINE AND REPLACED.
- STEAM SUPPLY SHALL BE AVAILABLE AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION OF THIS PROJECT EXCEPT FOR A SHUT DOWN.
- A THREE (3) HOUR STEAM SHUT-DOWN COMMENCING AT MIDNIGHT WILL BE ALLOWED TO REMOVE AND INSTALL NEW STEAM MAINFOLDS. A SHUT DOWN SHALL BE REQUESTED AND SCHEDULED WITH THE OMA FACILITIES MANAGER AND WILL REQUIRE 14 DAYS PRIOR TO APPROVAL.
- ALL MATERIALS TO COMPLETE THE PROJECT SHALL BE READILY AVAILABLE ON HAND/ISLAND BEFORE ANY REMOVAL WORK.
- WORK AT DIFFERENT PHASES CAN BE DONE SIMULTANEOUSLY AS LONG AS STEAM SUPPLY IS CONTINUOUS EXCEPT AS NOTED IN NOTE 2.
- BEFORE STARTING WORK, REVIEW PHASING PLAN AND REPORT ANY UNFORESEEN DIFFICULTY. PHASING PLAN MAY BE MODIFIED, SUBJECT TO THE APPROVAL OF OMA PROJECT MANAGER.
- BEFORE STARTING ANY WORK SUBMIT CONSTRUCTION SCHEDULE FOR APPROVAL OF OMA PROJECT MANAGER. BOILERS DOWNTIME SHALL BE CLEARLY IDENTIFIED IN THE CONSTRUCTION SCHEDULE.
- ALL NEW STEAM LINES, MAINFOLDS AND VALVES IN EACH PHASE SHALL BE IN PLACE, TESTED AND INSULATED BEFORE BOILER IS SHUT DOWN FOR STEAM LINES REPLACEMENT.
- REMOVE ALL ITEMS SHOWN WITH HATCH LINES.
- EXISTING BOILER #1 WILL PROVIDE STEAM SUPPLY THROUGHOUT THE DURATION OF BOILER#2 REPLACEMENT.
- NEW BOILER #2 WILL PROVIDE STEAM SUPPLY THROUGHOUT THE DURATION OF BOILER#1 REPLACEMENT.
- PATCH UP ALL FLOOR, WALL, AND ROOF OPENINGS RESULTING FROM REMOVAL WORK. MATERIALS AND FINISH TO MATCH ADJACENT SURFACES. ANY DAMAGES RESULTING FROM REMOVAL WORK SHALL BE RESTORED TO ORIGINAL CONDITION AT NO EXTRA COST TO THE GOVERNMENT.
- CAP OR PLUG ALL OPEN PIPE ENDS RESULTING FROM REMOVAL WORK TO MAINTAIN INTEGRITY OF THE SYSTEMS.
- ALL CONSTRUCTION DEBRIS MUST BE REMOVED FROM PROJECT SITE DAILY.
- ALL REMOVED EQUIPMENT AND MATERIAL WILL BECOME THE PROPERTY OF THE CONTRACTOR AND MUST BE TAKEN AWAY FROM THE PROJECT SITE IMMEDIATELY AFTER REMOVAL.
- DISPOSAL OF DEBRIS AND REMOVED ITEMS SHALL BE AT CONTRACTOR'S EXPENSE.
- INSTALLATION OF THE BOILERS MUST COMPLY WITH THE MANUFACTURER'S PUBLISHED INSTALLATION MANUAL.

PHASING KEY PLAN



REVISIONS	No.	Description	Date

RMT ENGINEERS, LLC
 MECHANICAL AND PIPING PROTECTION
 ENGINEERING AND SERVICES
 CONSTRUCTION MANAGEMENT SERVICES
 P.O. BOX 6833 TAMUNING, GUAM 96931
 TEL: (671) 500-0708
 Email: edman@rmtengineers.com



I HEREBY CERTIFY THAT THE SEAL WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.
 DATE: 10/23/24

Project: **REPLACE BOILER NO. 1 & 2**
 GUM MEMORIAL HOSPITAL TAMUNING, GUAM

Title: **LEGEND, SCHEDULE DESCRIPTION OF WORK, PHASING PLAN & NOTES**

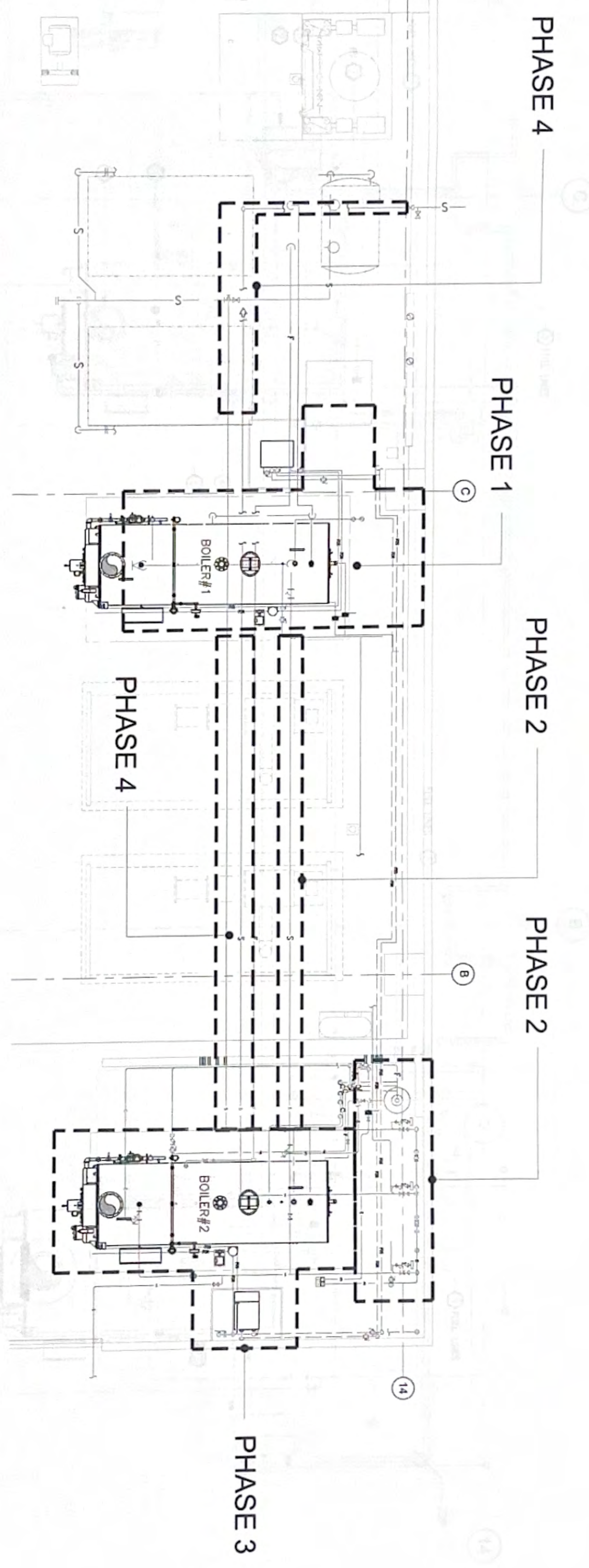
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Drawn:	EMM
Checked:	RMT
Supr:	RMT
Scale:	NONE
Date:	OCT 23, 2024
Project No:	AutoCAD File 61K2215
Drawing No:	MO.1

KEYED NOTES

- 1. REPAIR EXISTING BOILER NO. 1
- 2. REPAIR EXISTING BOILER NO. 2
- 3. REPAIR EXISTING BOILER NO. 3
- 4. REPAIR EXISTING BOILER NO. 4
- 5. REPAIR EXISTING BOILER NO. 5
- 6. REPAIR EXISTING BOILER NO. 6
- 7. REPAIR EXISTING BOILER NO. 7
- 8. REPAIR EXISTING BOILER NO. 8
- 9. REPAIR EXISTING BOILER NO. 9
- 10. REPAIR EXISTING BOILER NO. 10
- 11. REPAIR EXISTING BOILER NO. 11
- 12. REPAIR EXISTING BOILER NO. 12
- 13. REPAIR EXISTING BOILER NO. 13
- 14. REPAIR EXISTING BOILER NO. 14
- 15. REPAIR EXISTING BOILER NO. 15
- 16. REPAIR EXISTING BOILER NO. 16
- 17. REPAIR EXISTING BOILER NO. 17
- 18. REPAIR EXISTING BOILER NO. 18
- 19. REPAIR EXISTING BOILER NO. 19
- 20. REPAIR EXISTING BOILER NO. 20

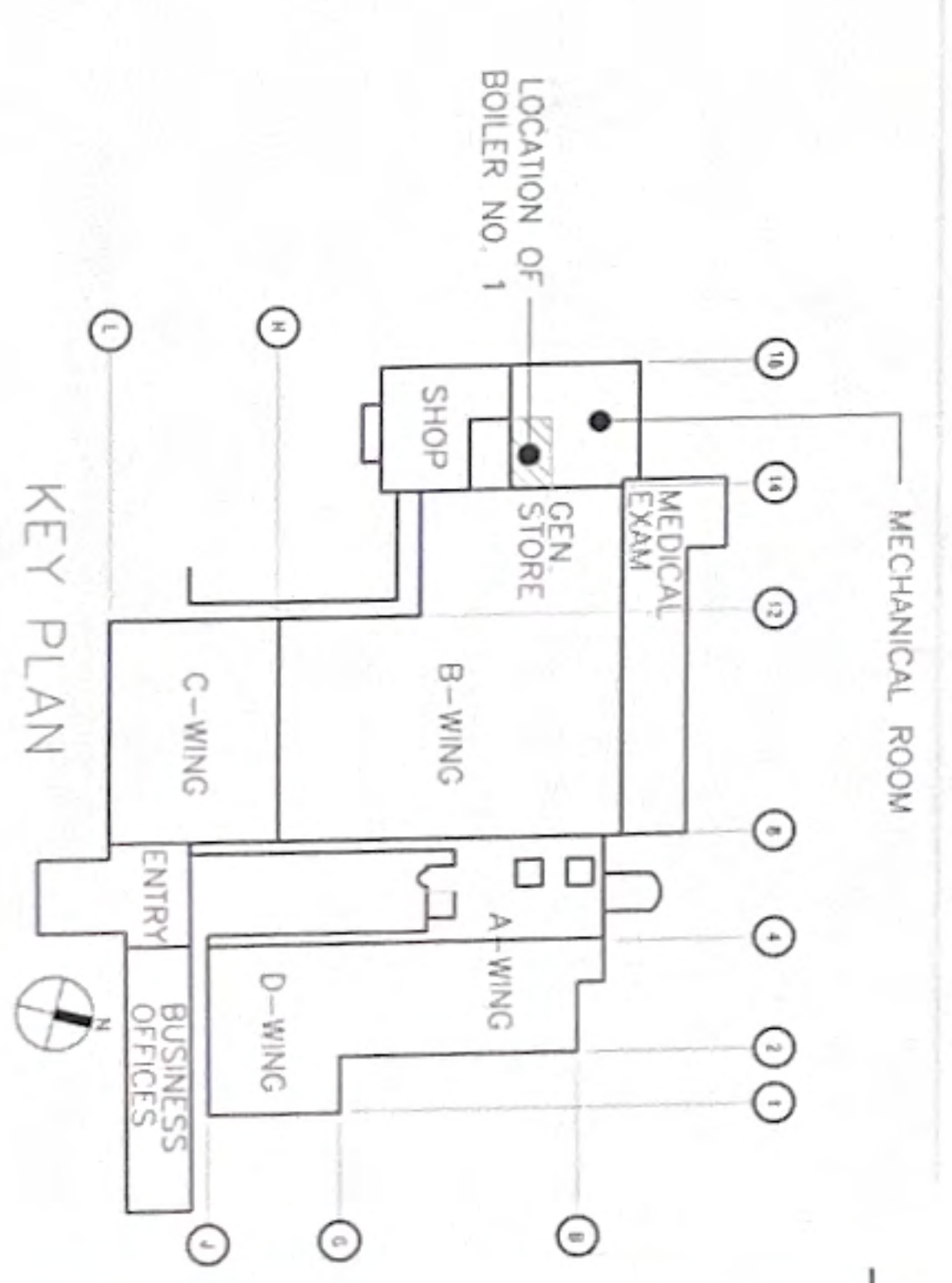
NOTES

1. REFER TO THE MECHANICAL ROOM KEY PLAN FOR THE LOCATION OF THE BOILERS.



PHASE 1: BOILER#1 & DT#1 REMOVAL PLAN
SCALE: 1/4" = 1'-0"

PHASING KEY PLAN
SCALE: 1/4" = 1'-0"



No.	Description	Date

RMT ENGINEERS, LLC
MECHANICAL AND FIRE PROTECTION
ENGINEERING SERVICES
CONSTRUCTION MANAGEMENT SERVICES
P.O. BOX 6653, TAMUNING, GUAM 96931
TEL: (671) 669-0766
Email: admin@rmtengineers.com



1. REFER TO THE MECHANICAL ROOM KEY PLAN FOR THE LOCATION OF THE BOILERS.
DATE: 10/23/24

Project:
REPLACE BOILER
NO. 1 & 2
GUAM MEMORIAL
HOSPITAL
TAMUNING,
GUAM

Title:
PHASING KEY PLAN

100% SUBMITTAL

Designed: RMT
Drawn: EMM
Checked: RMT
Supr: RMT
Scale: AS SHOWN
Date: OCT. 23, 2024
Project No. AutoCAD File 61K2215
61K2215 M1.1
Drawing No.

Sheet No. **M1.1** of 27

KEYED NOTES:

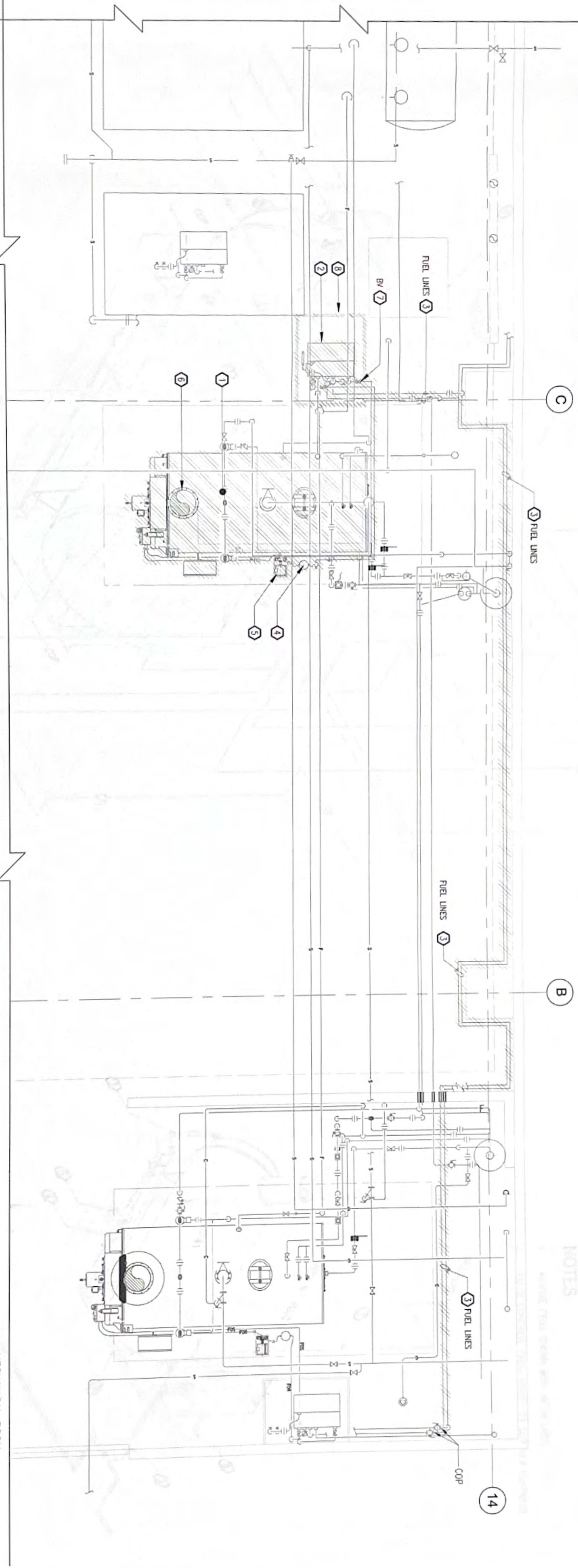
- ① REMOVE EXISTING AND PROVIDE NEW BOILER#1 WITH ASSOCIATED COMPONENTS AND ACCESSORIES
- ② REMOVE EXISTING AND PROVIDE NEW DT#1
- ③ REMOVE EXISTING AND PROVIDE NEW FUEL LINES
- ④ REMOVE EXISTING AND PROVIDE NEW FUEL FILTER
- ⑤ REMOVE EXISTING AND PROVIDE NEW FUEL PUMP
- ⑥ REMOVE EXISTING AND PROVIDE NEW VENT STACK
- ⑦ REMOVE EXISTING AND PROVIDE NEW BV, GV, Y-STEAMER
- ⑧ REMOVE EXISTING AND PROVIDE NEW BERM
- ⑨ REMOVE EXISTING AND PROVIDE NEW STEAM LINES

NOTES: DT#3

- 1 REMOVE ITEMS SHOWN WITH HATCH LINES.
- 2 REUSE EXISTING CONCRETE PADS, MODIFY TO SUIT NEW EQUIPMENT

NOTES

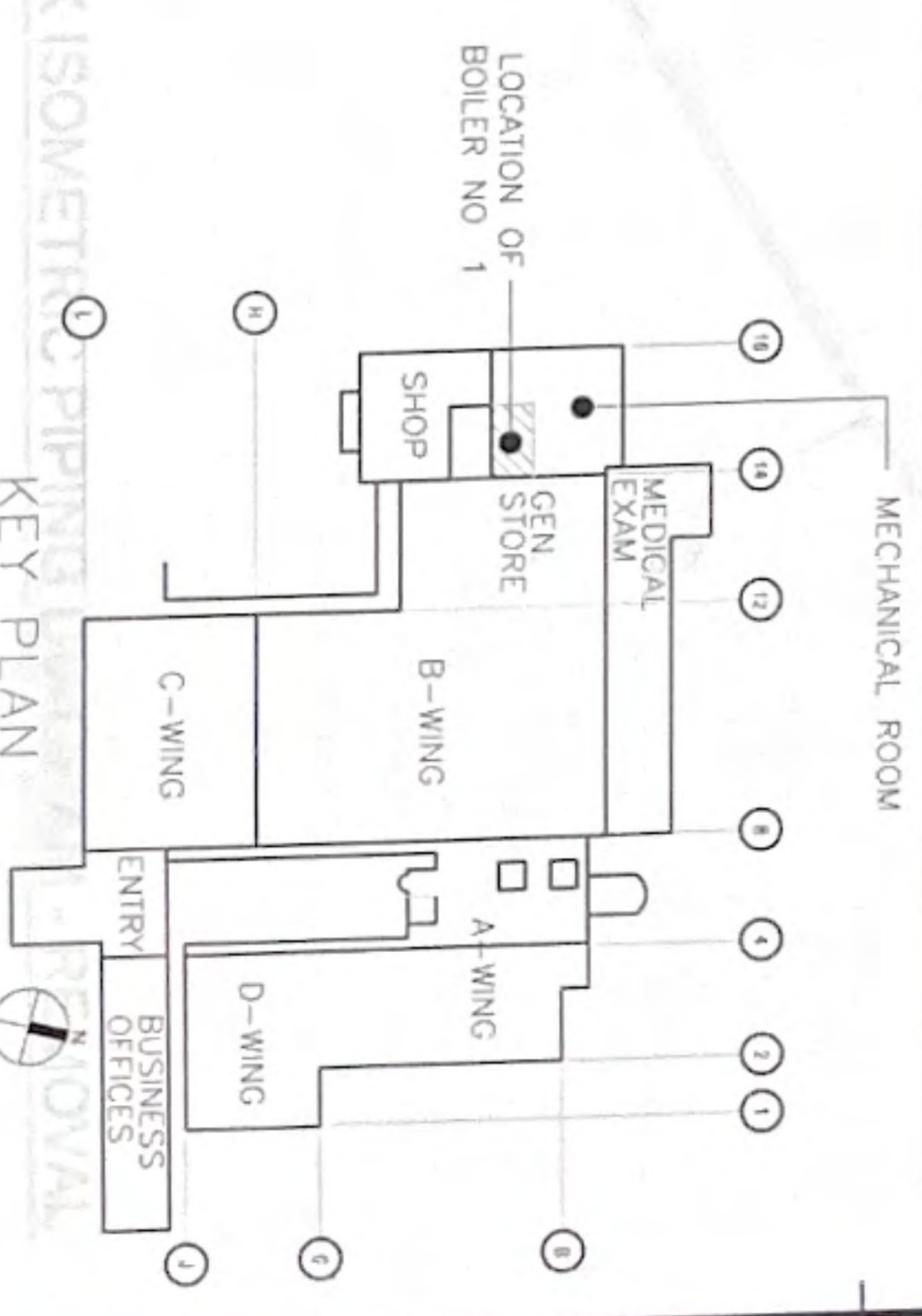
REMOVE THIS DRAWING FROM THE PROJECT



1 PHASE 1: BOILER#1 & DT#1 REMOVAL PLAN
SCALE: 3/4" = 1'-0"

1 PHASE 1: BOILER#1 ISOMETRIC PIPING DIAGRAM - REMOVAL
SCALE: 1/4" = 1'-0"

2 PHASE 1: FUEL DAY TANK ISOMETRIC PIPING DIAGRAM - REMOVAL
SCALE: 1/4" = 1'-0"



No	Description	Date

RMT ENGINEERS, LLC
MECHANICAL AND FIRE PROTECTION
ENGINEERING SERVICES
CONSTRUCTION MANAGEMENT SERVICES
P O BOX 6633 TAMUNING GUAM 98931
TEL: (671) 999-0708
Email: info@rmtengineers.com



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION
DATE: 10/23/24

Project: REPLACE BOILER NO. 1 & 2
HOSPITAL GUAM MEMORIAL TAMUNING, GUAM

Title: PHASE 2: BOILER#1 & DT#1 REMOVAL PLAN & NOTES

100% SUBMITTAL

Designed	RMT
Drawn	EMM
Checked	RMT
Supvr	RMT
Scale:	AS SHOWN
Date:	OCT 23, 2024
Project No.:	AutoCAD File 61K2215
Drawing No.:	61K2215 M1.2

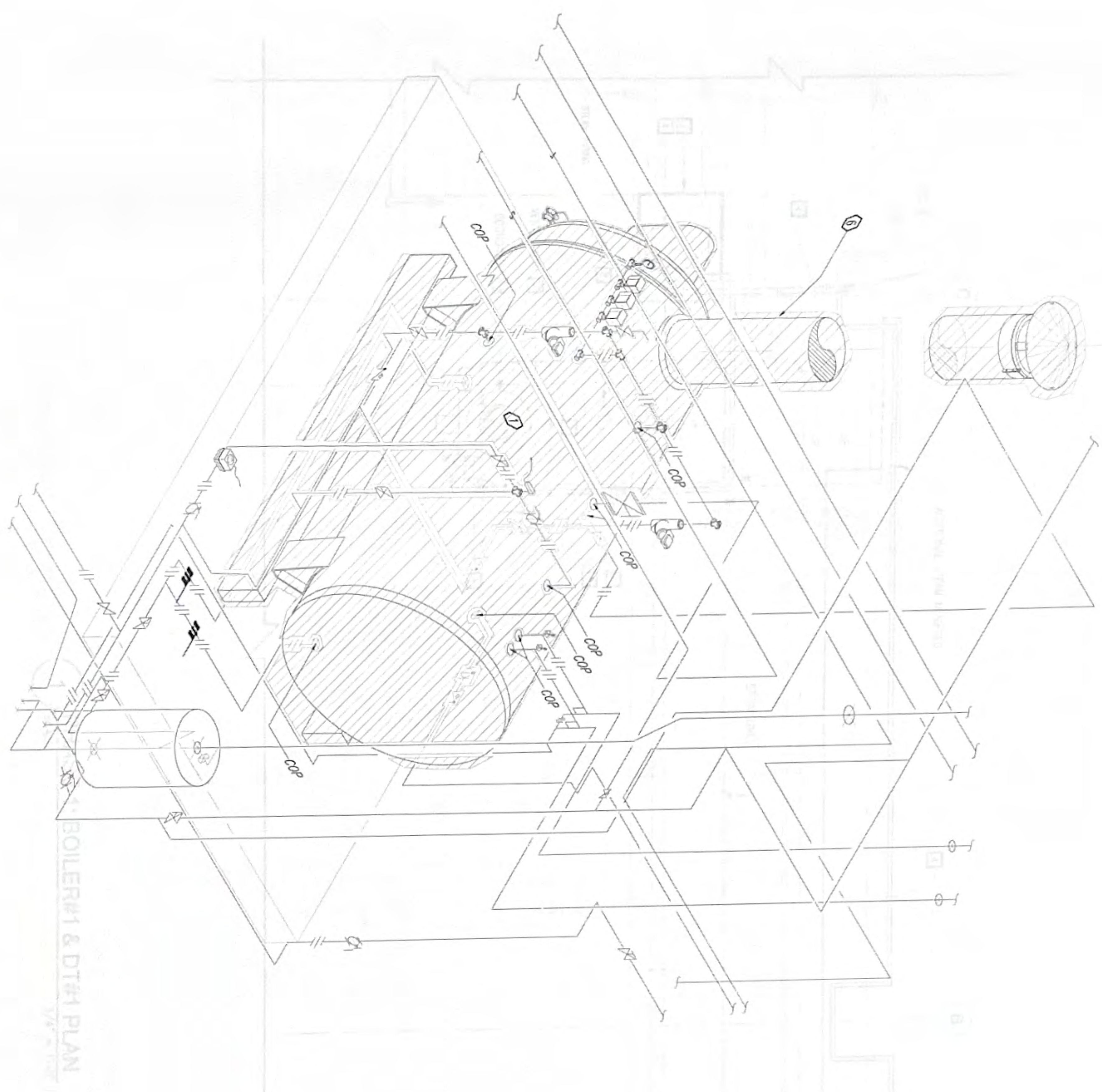
Sheet No. 12 of 27

M1.2

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1 SCALE PHASE 1: BOILER#1 ISOMETRIC PIPING DIAGRAM - REMOVAL

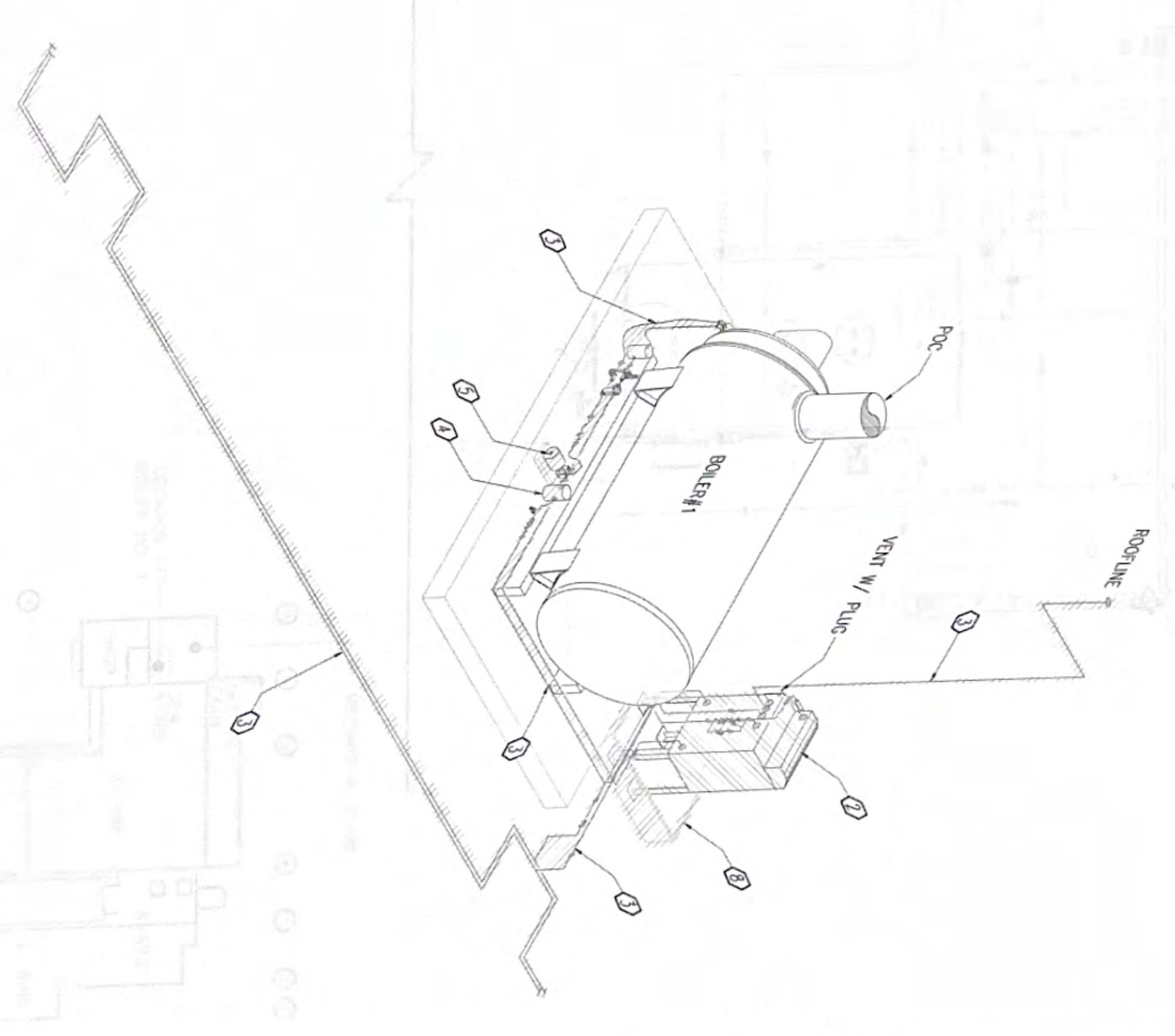
KEYED NOTES:

- 1. REMOVE EXISTING AND PROVIDE NEW BOILER#1 WITH ASSOCIATED COMPONENTS AND ACCESSORIES.
- 2. REMOVE EXISTING AND PROVIDE NEW DT#1
- 3. REMOVE EXISTING AND PROVIDE NEW FUEL LINES & APPURTENANCES
- 4. REMOVE EXISTING AND PROVIDE NEW FUEL FILTER
- 5. REMOVE EXISTING AND PROVIDE NEW FUEL PUMP
- 6. REMOVE EXISTING AND PROVIDE NEW VENT STACK
- 7. REMOVE EXISTING AND PROVIDE NEW BV, CV, Y-STRAINER
- 8. REMOVE EXISTING AND PROVIDE NEW BERU
- 9. REMOVE EXISTING AND PROVIDE NEW STEAM LINES

KEY NOTES:

- 1. REMOVE ITEMS SHOWN WITH HATCH LINES.
- 2. REUSE CONCRETE PADS, MODIFY TO SUIT NEW EQUIPMENT

NOTES:



2 SCALE PHASE 1: FUEL DAY TANK ISOMETRIC PIPING DIAGRAM - REMOVAL

No.	Description	Date

RMT ENGINEERS, LLC
 MECHANICAL AND FIRE PROTECTION
 ENGINEERING SERVICES
 CONSTRUCTION MANAGEMENT SERVICES
 P.O. BOX 6883 TAMUNING, GUAM 98931
 TEL: (671) 509-0768
 Email: adm@rmtengineers.com



Project: REPLACE BOILER NO. 1 & 2
 GUAM MEMORIAL HOSPITAL
 TAMUNING, GUAM

Title: PHASE 1: BOILER#1 & FUEL DAY TANK ISOMETRIC PIPING DIAGRAM - REMOVAL

100% SUBMITTAL

Designed: RMT
 Drawn: EMM
 Checked: RMT
 Supv: RMT
 Scale: AS SHOWN

Date: OCT. 23, 2024
 Project No: 61K2215
 AutoCAD File: 61K2215 M1.3
 Drawing No:

No.	Description	Date

REVISIONS

RMT ENGINEERS, LLC
 MECHANICAL AND FIRE PROTECTION
 ENGINEERING SERVICES
 CONSTRUCTION MANAGEMENT SERVICES
 P.O. BOX 8863, TAMPUNING, GUAM 98181
 TEL: (671) 969-0768
 Email: admin@rmtengineers.com



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION
 DATE: 10-23-24

Project:
 REPLACE BOILER
 NO. 1 & 2
 GUAM MEMORIAL
 HOSPITAL
 TAMPUNING,
 GUAM

Title:
 PHASE 1:
 BOILER#1 & DT#1 PLAN &
 NOTES

100% SUBMITTAL

Designed: RMT
 Drawn: EMM
 Checked: RMT
 Supv: RMT

Date: OCT. 23, 2024
 Project No: 61K2215
 AutoCAD File: 61K2215 M1.4
 Drawing No:

Sheet No. 14 of 27

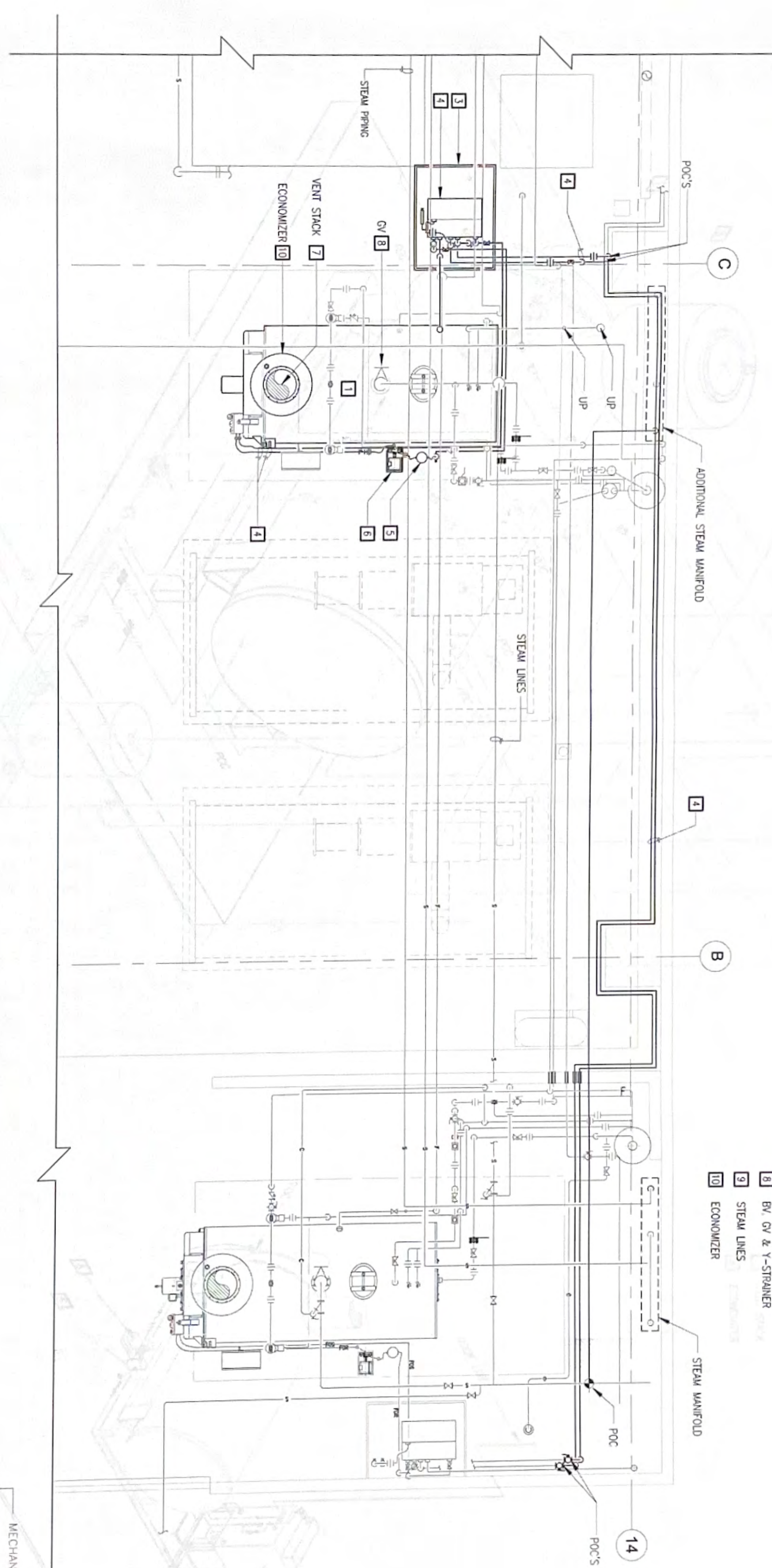
M1.4

NOTES:

- ITEMS IN HEAVY LINES ARE NEW
- ITEMS IN LIGHT LINES ARE EXISTING.

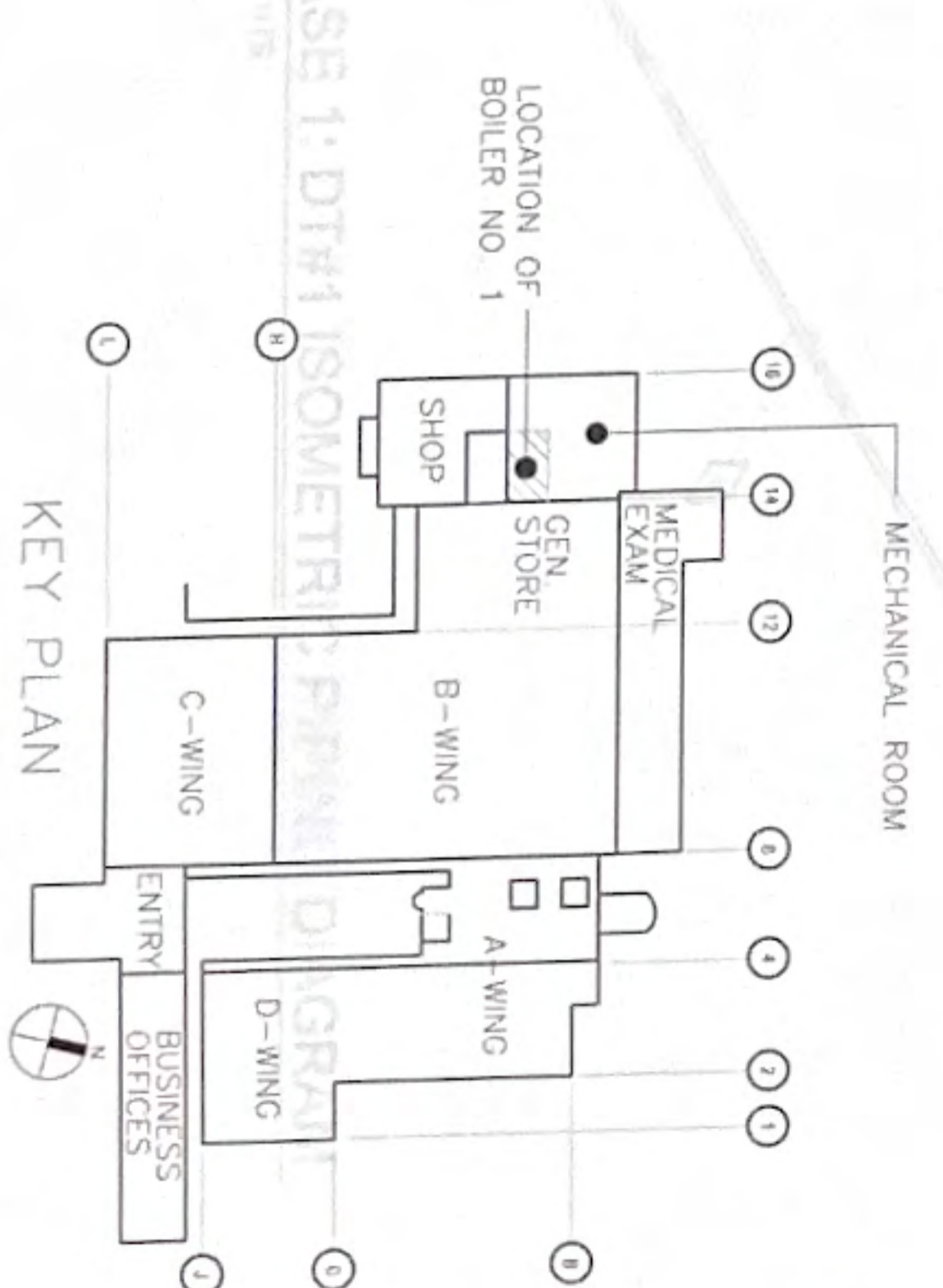
KEYED NOTES:

- BOILER#1 KEYPED NOTES
- DT#1, 50 GALS. TRAMONTA TRS SERIES WITH SYSTEM 20000 PLUS EQA, 3/4 HP MOTOR AND 2 GPM PUMP
- BERM
- FUEL LINES
- FUEL FILTER
- FUEL PUMP
- VENT STACK
- BY GV & Y-STRAINER
- STEAM LINES
- ECONOMIZER



1 PHASE 1: BOILER#1 & DT#1 PLAN
 SCALE: 3/4" = 1'-0"

2 PHASE 1: DT#1 ISOMETRIC
 SCALE: 1/8" = 1'-0"



1 PHASE 1: BOILER#1 ISOMETRIC PIPING PLAN
 SCALE: 1/8" = 1'-0"

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REVISIONS

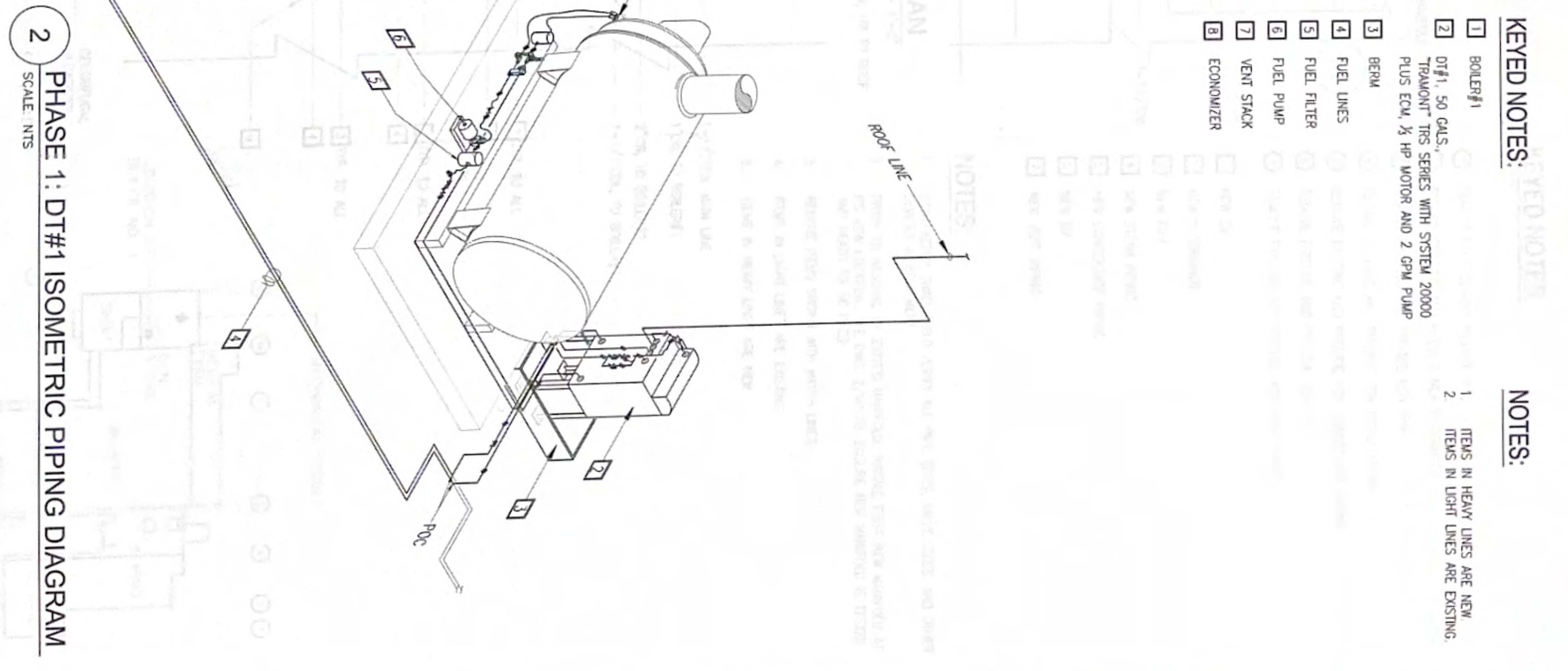
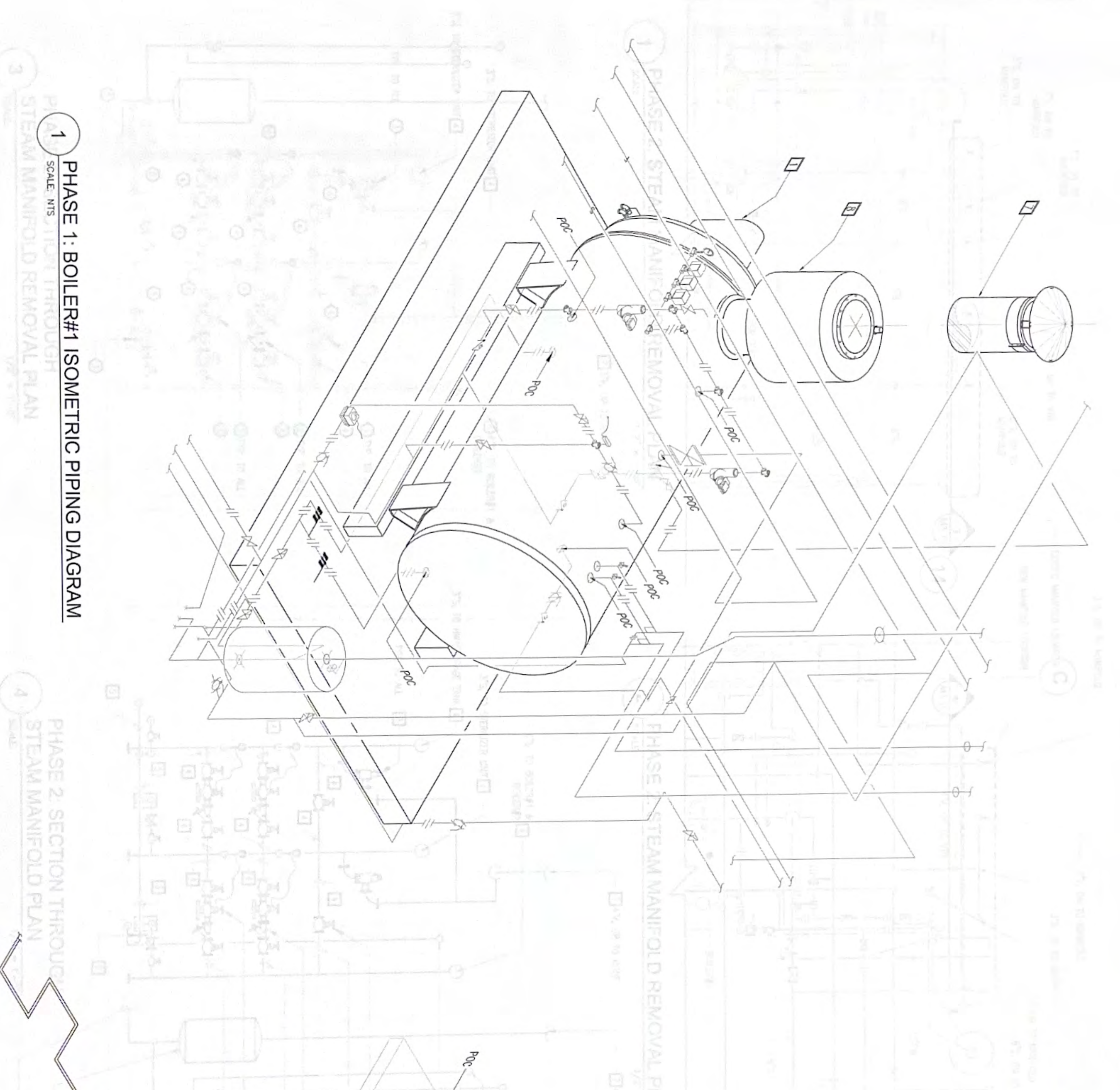
No. Description Date

KEYED NOTES:

- 1 BOILER#1
- 2 DT#1, 50 GALS. TRAMONT TFS SERIES WITH SYSTEM 20000 PLUS ECM, 1/2 HP MOTOR AND 2 GPM PUMP
- 3 BERM
- 4 FUEL LINES
- 5 FUEL FILTER
- 6 FUEL PUMP
- 7 VENT STACK
- 8 ECONOMIZER

NOTES:

- 1 ITEMS IN HEAVY LINES ARE NEW
- 2 ITEMS IN LIGHT LINES ARE EXISTING



1 PHASE 1: BOILER#1 ISOMETRIC PIPING DIAGRAM
SCALE: NTS

2 PHASE 1: DT#1 ISOMETRIC PIPING DIAGRAM
SCALE: NTS

2 PHASE 2: SECTION THROUGH STEAM MANIFOLD REMOVAL PLAN
SCALE: NTS

RMT ENGINEERS, LLC
MECHANICAL AND FIRE PROTECTION
ENGINEERING SERVICES
CONSTRUCTION MANAGEMENT SERVICES
P O BOX 6633, TAMPUNING, GUAM 98931
TEL: (671) 969-0768
Email: admin@rmtengineers.com



1. HEAVY LINES ARE NEW AND LIGHT LINES ARE EXISTING
BY: RMT ENGINEERS, LLC
DATE: 10-23-2024

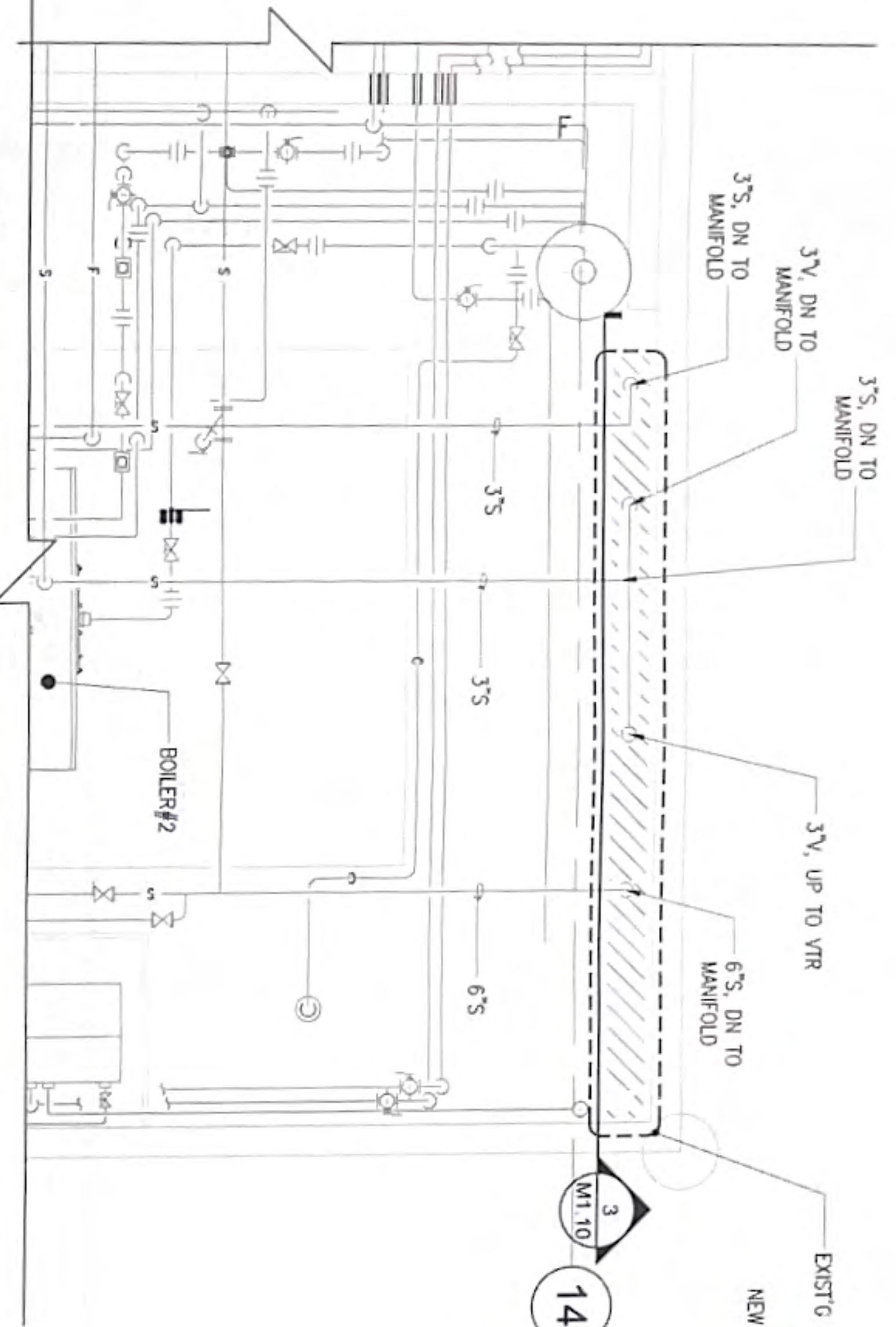
Project:	REPLACE BOILER NO. 1 & 2 GUAM MEMORIAL HOSPITAL, TAMPUNING, GUAM
Title:	PHASE 2: BOILER#1 & FUEL DAY TANK ISOMETRIC PIPING DIAGRAM
Designed:	RMT 100% SUBMITTAL
Drawn:	EAM
Checked:	RMT
Supv:	RMT
Scale:	AS SHOWN
Date:	OCT. 23, 2024
Project No.:	61K2215
AutoCAD File:	61K2215.M1.5
Drawing No.:	M1.5
Sheet No.:	15 of 27

KEYED NOTES:

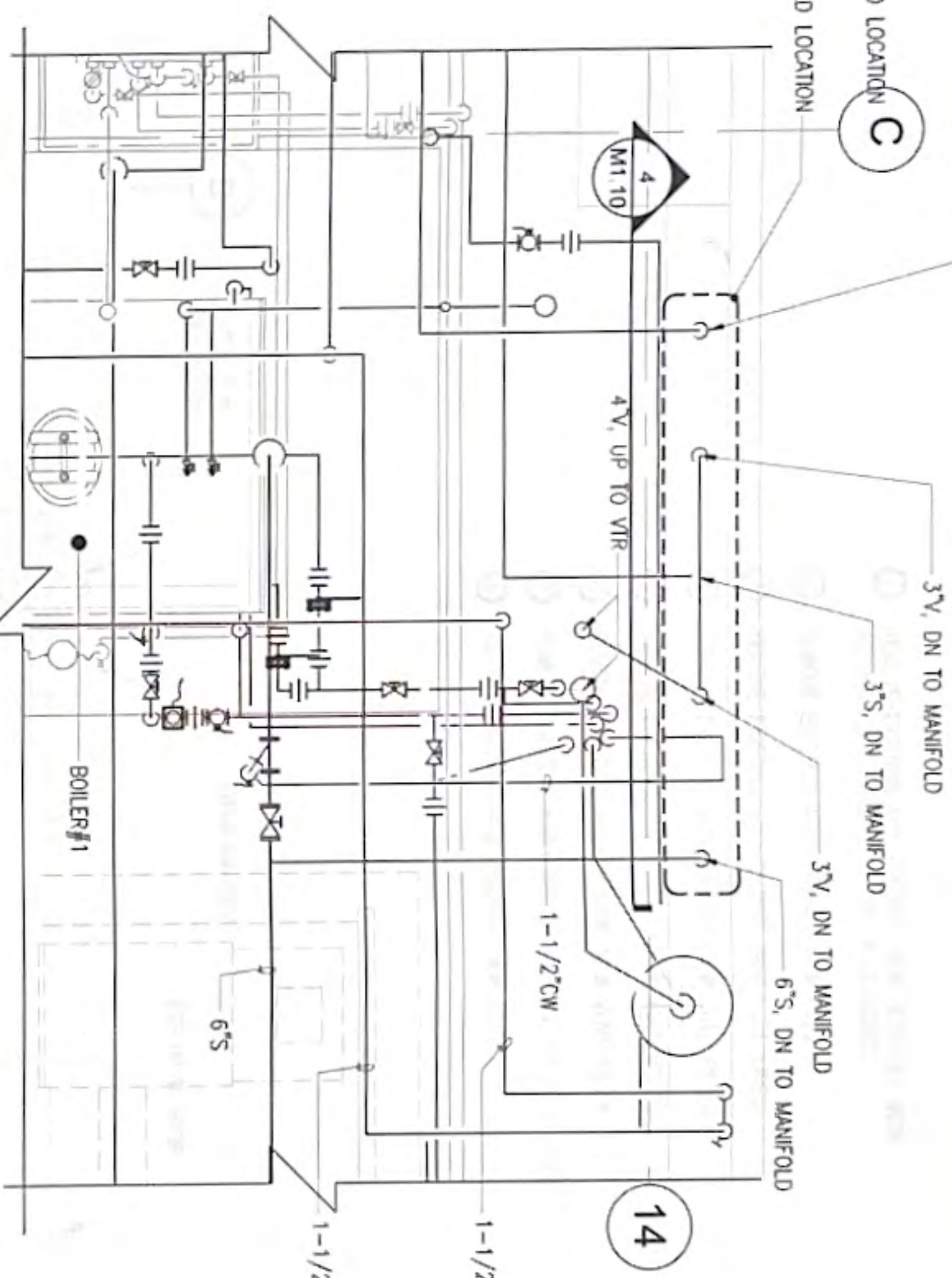
- 1 REMOVE EXISTING AND PROVIDE NEW GV
- 2 REMOVE EXISTING AND PROVIDE NEW Y-STRAINER
- 3 REMOVE EXISTING AND PROVIDE NEW PRV
- 4 REMOVE EXISTING AND PROVIDE NEW STEAM PIPING
- 5 REMOVE EXISTING AND PROVIDE NEW CONDENSATE PIPING
- 6 REMOVE EXISTING AND PROVIDE NEW BV
- 7 REMOVE EXISTING AND PROVIDE NEW VENT PIPING
- 1 NEW GV
- 2 NEW Y-STRAINER
- 3 NEW PRV
- 4 NEW STEAM PIPING
- 5 NEW CONDENSATE PIPING
- 6 NEW BV
- 7 NEW VENT PIPING

NOTES:

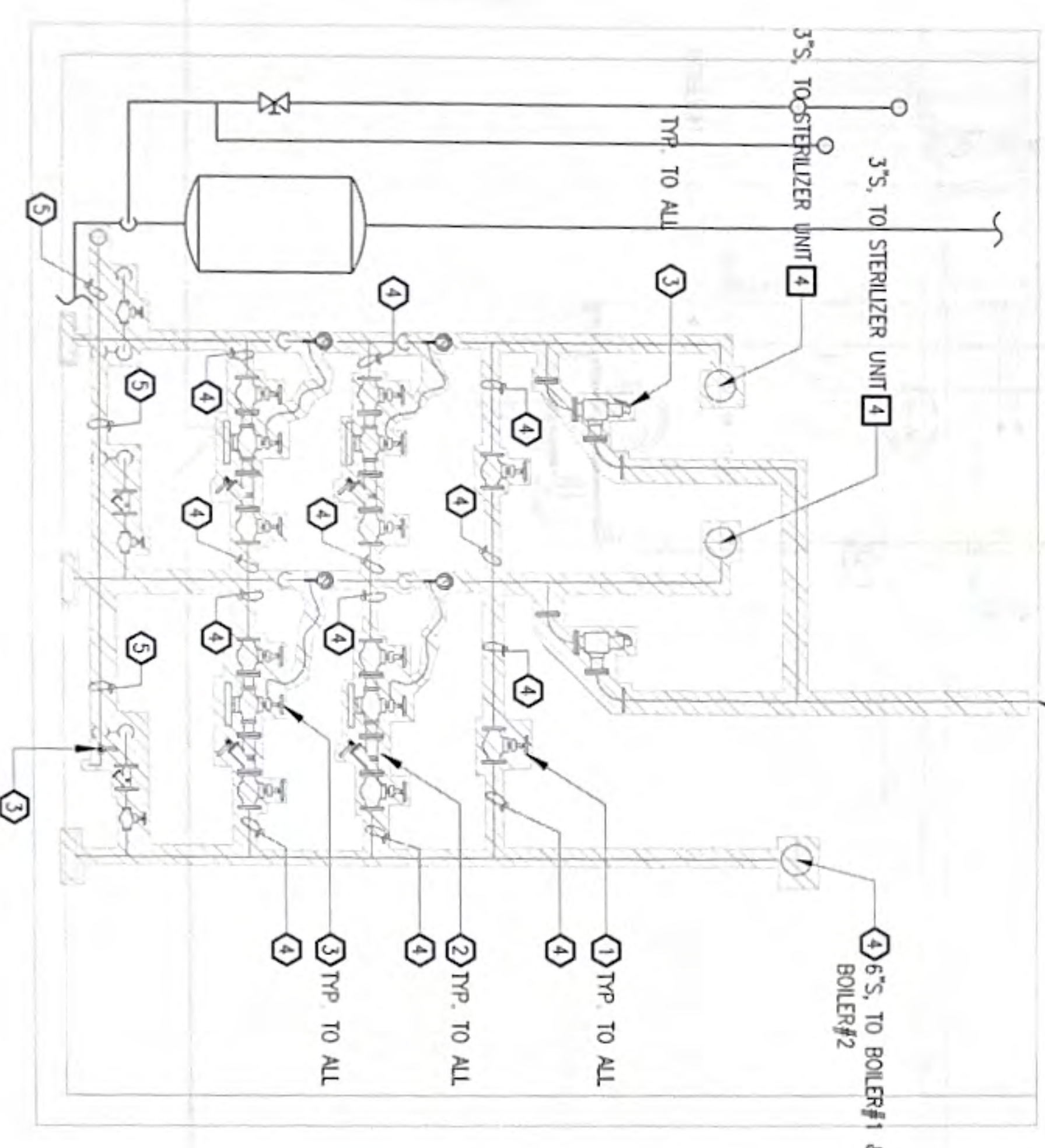
- 1 CONTRACTOR SHALL FIELD VERIFY ALL PIPE SIZES, VALVE SIZES, AND OTHER DEVICES & EQUIPMENT
- 2 PRIOR TO REMOVAL OF EXIST'G MANIFOLD, INSTALL FIRST NEW MANIFOLD AT ITS NEW LOCATION. SEE DWG. 2/M1.10 ENSURE NEW MANIFOLD IS TESTED AND READY TO BE USED.
- 3 REMOVE ITEMS SHOWN WITH HATCH LINES
- 4 ITEMS IN LIGHT LINES ARE EXISTING
- 5 ITEMS IN HEAVY LINES ARE NEW



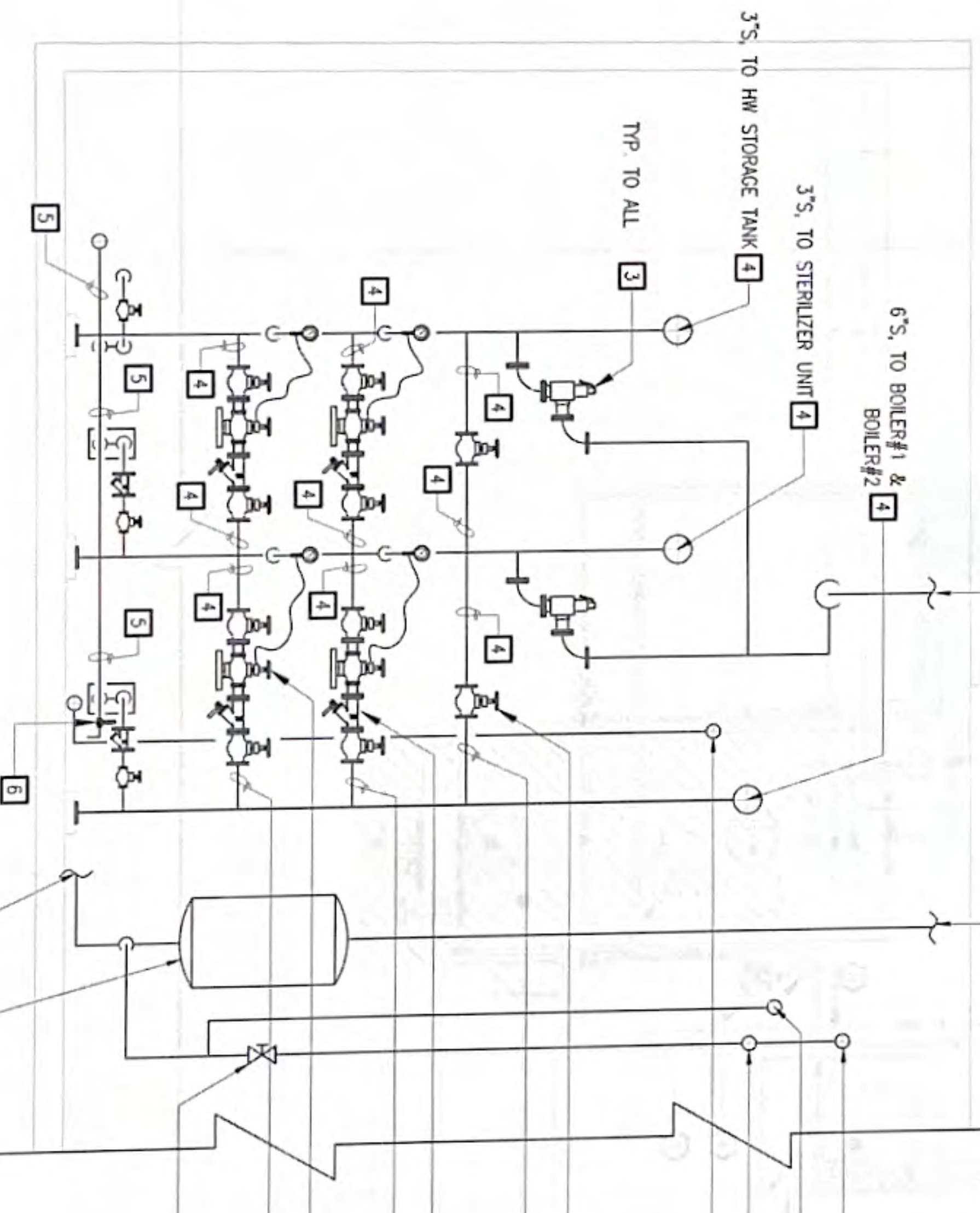
1 PHASE 2: STEAM MANIFOLD REMOVAL PLAN
SCALE 1/2" = 1'-0"



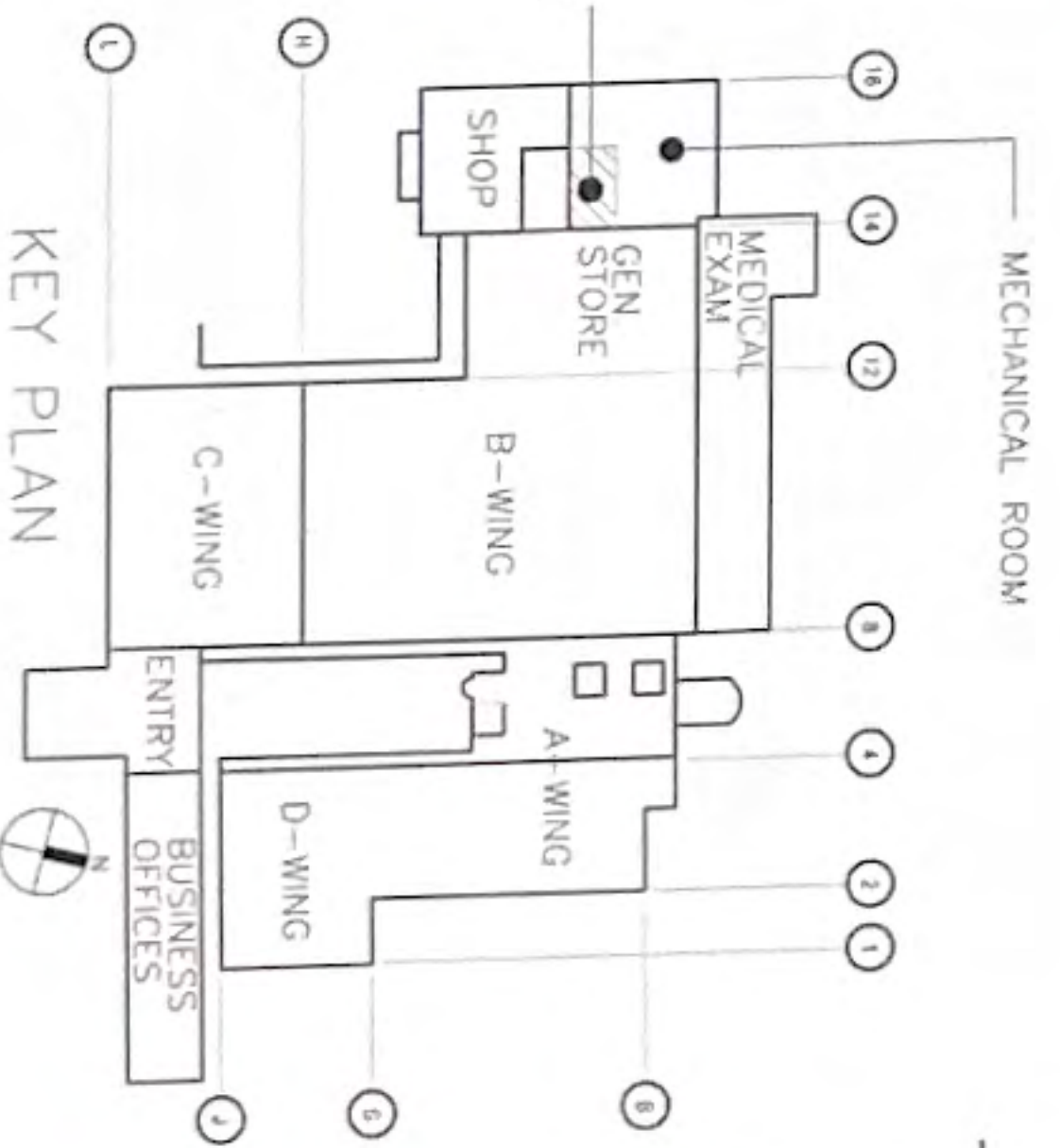
2 PHASE 2: STEAM MANIFOLD REMOVAL PLAN
SCALE 1/2" = 1'-0"



3 PHASE 2: SECTION THROUGH STEAM MANIFOLD REMOVAL PLAN
SCALE 1/2" = 1'-0"



4 PHASE 2: SECTION THROUGH STEAM MANIFOLD REMOVAL PLAN
SCALE 1/2" = 1'-0"



KEY PLAN

No.	Description	Date

REVISIONS

PROJECT:
REPLACE BOILER NO. 1 & 2
GUAM MEMORIAL HOSPITAL, TAMUNING, GUAM

DESIGNED: RMT
DRAWN: RMM
CHECKED: RMT
SCALE: AS SHOWN

DATE: OCT 23, 2024
PROJECT NO: 61K2215
AUTOCAD FILE: 61K2215 M1.6

100% SUBMITTAL

PHASE 2: STEAM MANIFOLD PLAN & NOTES

Project: REPLACE BOILER NO. 1 & 2
GUAM MEMORIAL HOSPITAL, TAMUNING, GUAM

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Project No: 61K2215
AutoCAD File: 61K2215 M1.6

Date: OCT 23, 2024
Project No: 61K2215
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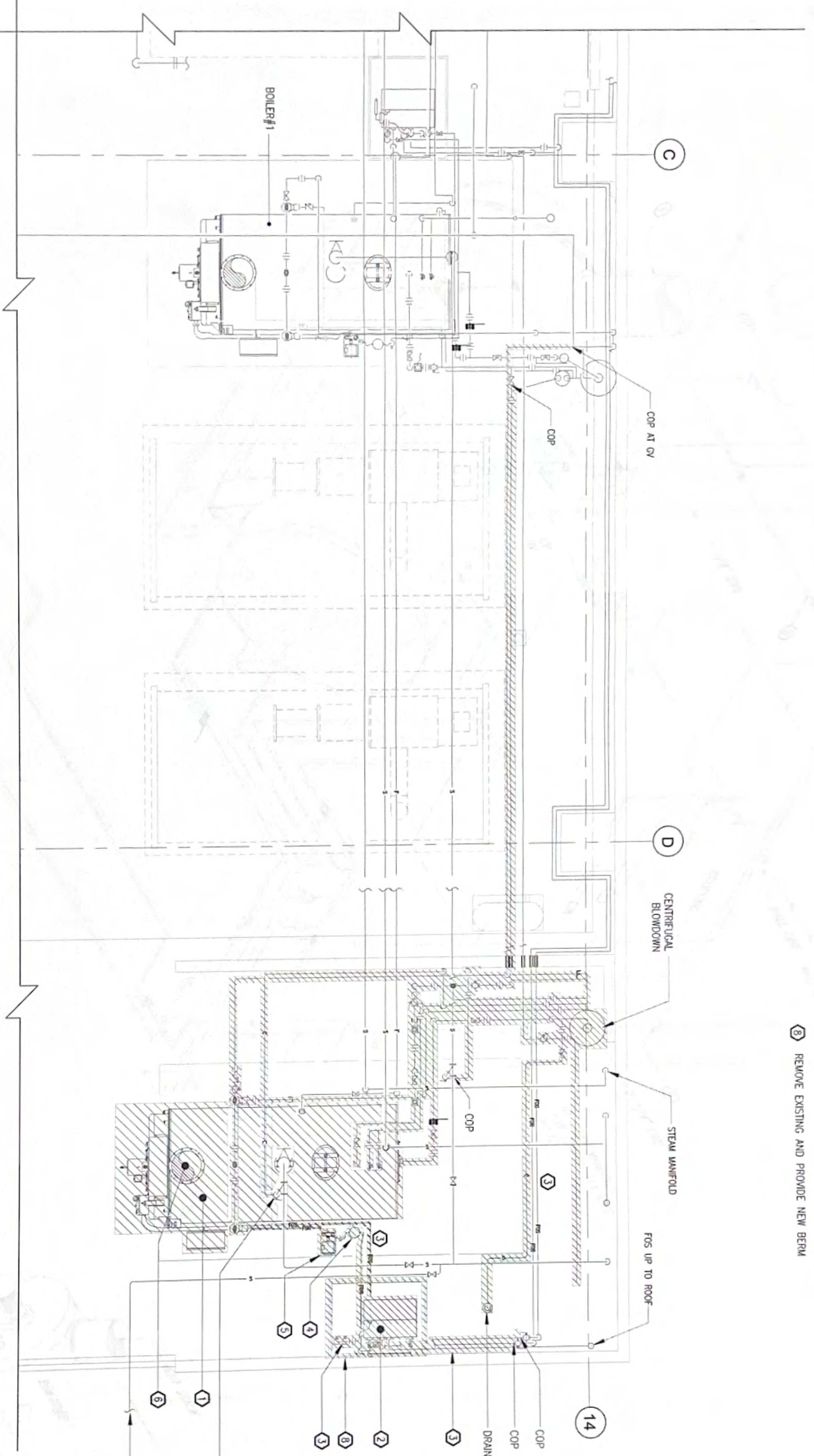
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KEYED NOTES:

- ① REMOVE EXISTING AND PROVIDE NEW BOILER#2 WITH ASSOCIATED COMPONENTS AND ACCESSORIES
- ② REMOVE EXISTING AND PROVIDE NEW DT#2
- ③ REMOVE EXISTING AND PROVIDE NEW FUEL LINES
- ④ REMOVE EXISTING AND PROVIDE NEW FUEL FILTER
- ⑤ REMOVE EXISTING AND PROVIDE NEW FUEL PUMP
- ⑥ REMOVE EXISTING AND PROVIDE NEW VENT STACK
- ⑦ REMOVE EXISTING AND PROVIDE NEW BV, GV, Y-STRAINER
- ⑧ REMOVE EXISTING AND PROVIDE NEW BERM

NOTES:

- 1 REMOVE ITEMS SHOWN WITH HATCH LINES.
- 2 REUSE EXISTING CONCRETE PADS, MODIFY TO SUIT NEW EQUIPMENT.



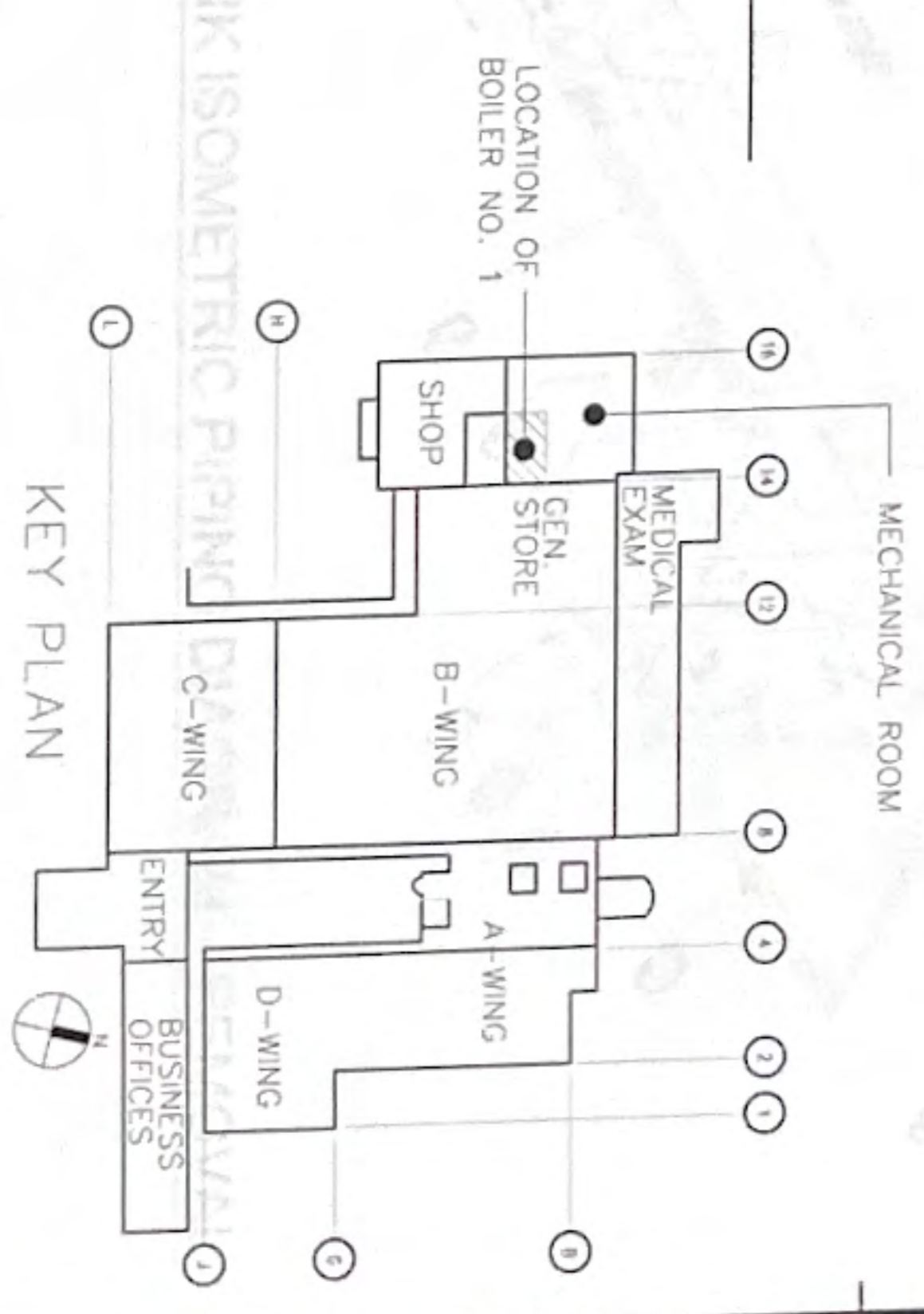
TO HAZARDOUS WASTE DISPOSAL FOR CONT'N, SEE SITE CONDITION

Y-STRAINER

1 PHASE 3: BOILER#2 ISOMETRIC PIPING DIAGRAM - REMOVAL

1 PHASE 3: BOILER#2 & DT#2 REMOVAL PLAN
SCALE: 3/8" = 1'-0"

2 PHASE 3: FUEL DAY TANK ISOMETRIC PIPING



NOTES:

1. REMOVE EXISTING AND PROVIDE NEW BOILER#2 WITH ASSOCIATED COMPONENTS AND ACCESSORIES

2. REMOVE EXISTING AND PROVIDE NEW DT#2

3. REMOVE EXISTING AND PROVIDE NEW FUEL LINES

4. REMOVE EXISTING AND PROVIDE NEW FUEL FILTER

5. REMOVE EXISTING AND PROVIDE NEW FUEL PUMP

6. REMOVE EXISTING AND PROVIDE NEW VENT STACK

7. REMOVE EXISTING AND PROVIDE NEW BV, GV, Y-STRAINER

8. REMOVE EXISTING AND PROVIDE NEW BERM

No.	Description	Date

RMT ENGINEERS, LLC
MECHANICAL AND FIRE PROTECTION
ENGINEERING SERVICES
CONSTRUCTION MANAGEMENT SERVICES
P O BOX 6883 TAMUNING, GUAM 99931
TEL (671) 969-0760
Email: rmteng@rmteng.com



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION
DATE: 10-23-24

Project: REPLACE BOILER NO. 1 & 2
GUAM MEMORIAL HOSPITAL
TAMUNING, GUAM

Title: PHASE 3: BOILER#2 & DT#2 REMOVAL PLAN & NOTES

100% SUBMITTAL

Designed: RMT
Drawn: EMM
Checked: RMT
Supr: RMT
Scale: AS SHOWN

Date: OCT. 23, 2024
Project No: 61K2215
AutoCAD File: 61K2215 M1.7
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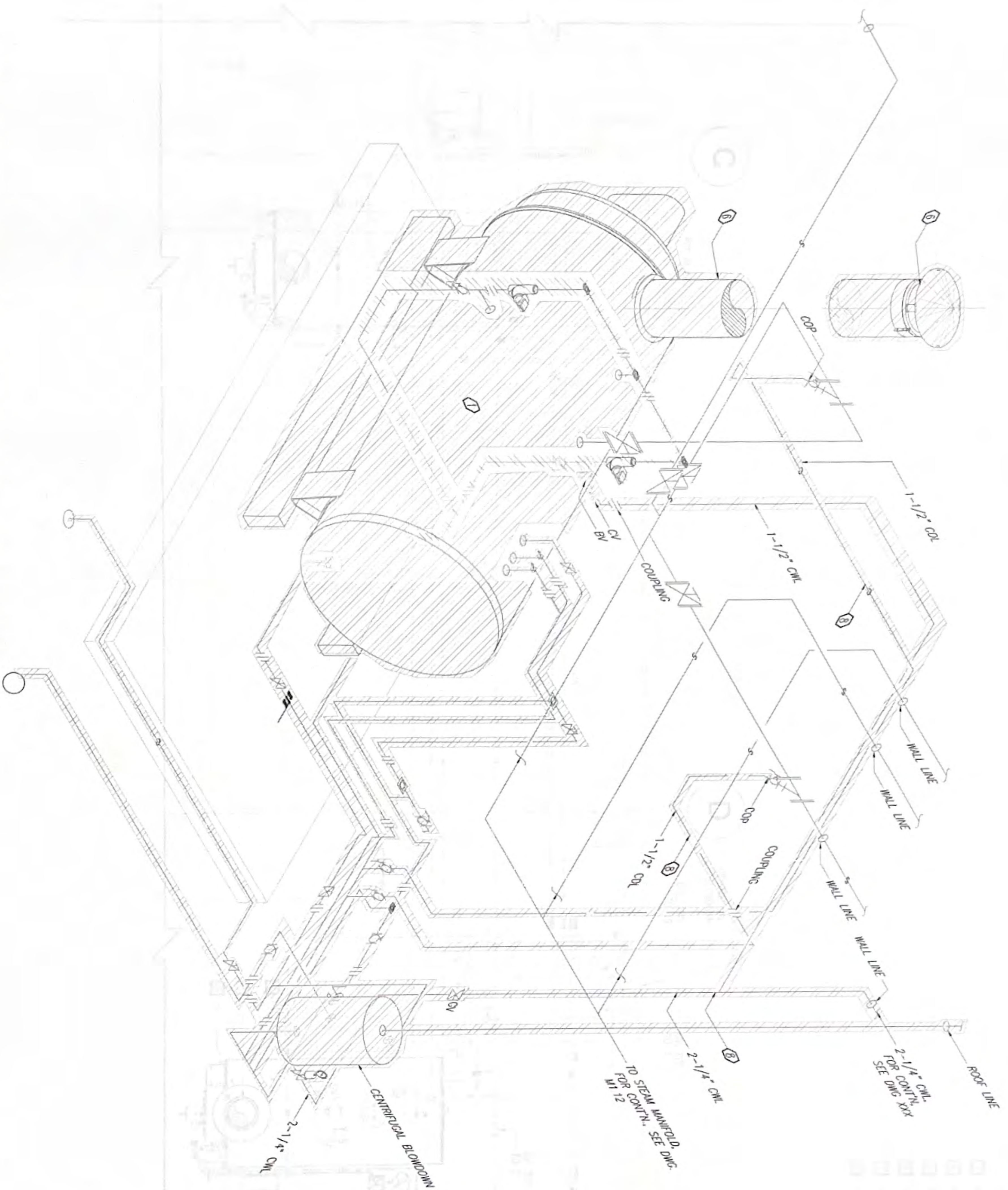
No.	Description	Date

KEY NOTES:

- ① REMOVE EXISTING AND PROVIDE NEW BOILER#2 AND ASSOCIATED COMPONENTS AND ACCESSORIES
- ② REMOVE EXISTING AND PROVIDE NEW DT#2
- ③ REMOVE EXISTING AND PROVIDE NEW FOS/FOR & APPURTENANCES
- ④ REMOVE EXISTING AND PROVIDE NEW FUEL FILTER
- ⑤ REMOVE EXISTING AND PROVIDE NEW FUEL PUMP
- ⑥ REMOVE EXISTING AND PROVIDE NEW BOILER STACK INCLUDING RAIN CAP
- ⑦ REMOVE EXISTING AND PROVIDE NEW BEM
- ⑧ REMOVE EXISTING AND PROVIDE NEW CUL INCLUDING ITS ASSOCIATED ACCESSORIES

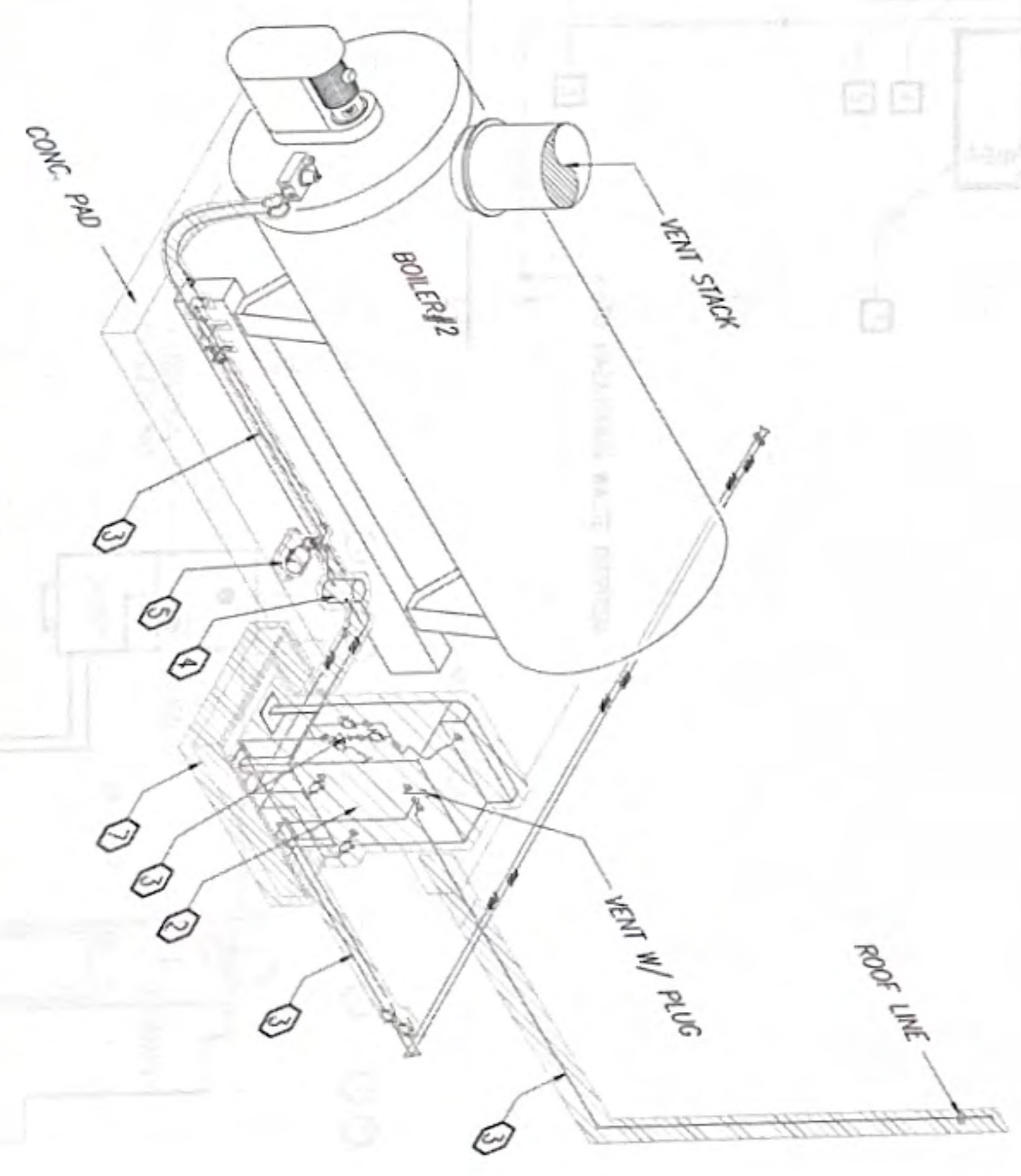
NOTES:

- 1 REMOVE ITEMS SHOWN WITH HATCH LINES.
- 2 UNLESS INDICATED OTHERWISE, REMOVE EXISTING AND PROVIDE NEW PIPING UP TO 1ST ISOLATION VALVE FROM BOILER
- 3 WHERE NO ISOLATION VALVE EXIST, SUCH AS RELIEF VALVE DISCHARGE PIPING, REMOVE EXISTING AND PROVIDE NEW PIPING TYPICAL TO COMMON DISCHARGE HEADER.



1 PHASE 3: BOILER#2 ISOMETRIC PIPING DIAGRAM - REMOVAL
SCALE NTS

2 PHASE 3: FUEL DAY TANK ISOMETRIC PIPING DIAGRAM - REMOVAL
SCALE NTS



NOTES:

NO.	DESCRIPTION

REVISIONS

No.	Description	Date

NOTES:

RMTE ENGINEERS, LLC
MECHANICAL AND FIRE PROTECTION
ENGINEERING SERVICES
CONSTRUCTION MANAGEMENT SERVICES
P.O. BOX 6833, TAMPUNING, GUAM 96931
TEL: (671) 959-0766
Email: admin@rmteengineers.com



I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION
DATE: 10-23-24

Project: REPLACE BOILER NO. 1 & 2
Client: GUAM MEMORIAL HOSPITAL, TAMPUNING, GUAM

Title: PHASE 3: BOILER#2 & FUEL DAY TANK ISOMETRIC PIPING DIAGRAM - REMOVAL

100% SUBMITTAL

Designed: RMT
Drawn: EMM
Checked: RMT
Supr: RMT
Scale: NONE

Date: OCT. 23, 2024
Project No.: 61K2215
AutoCAD File: 61K2215.M1.8
Drawing No.:

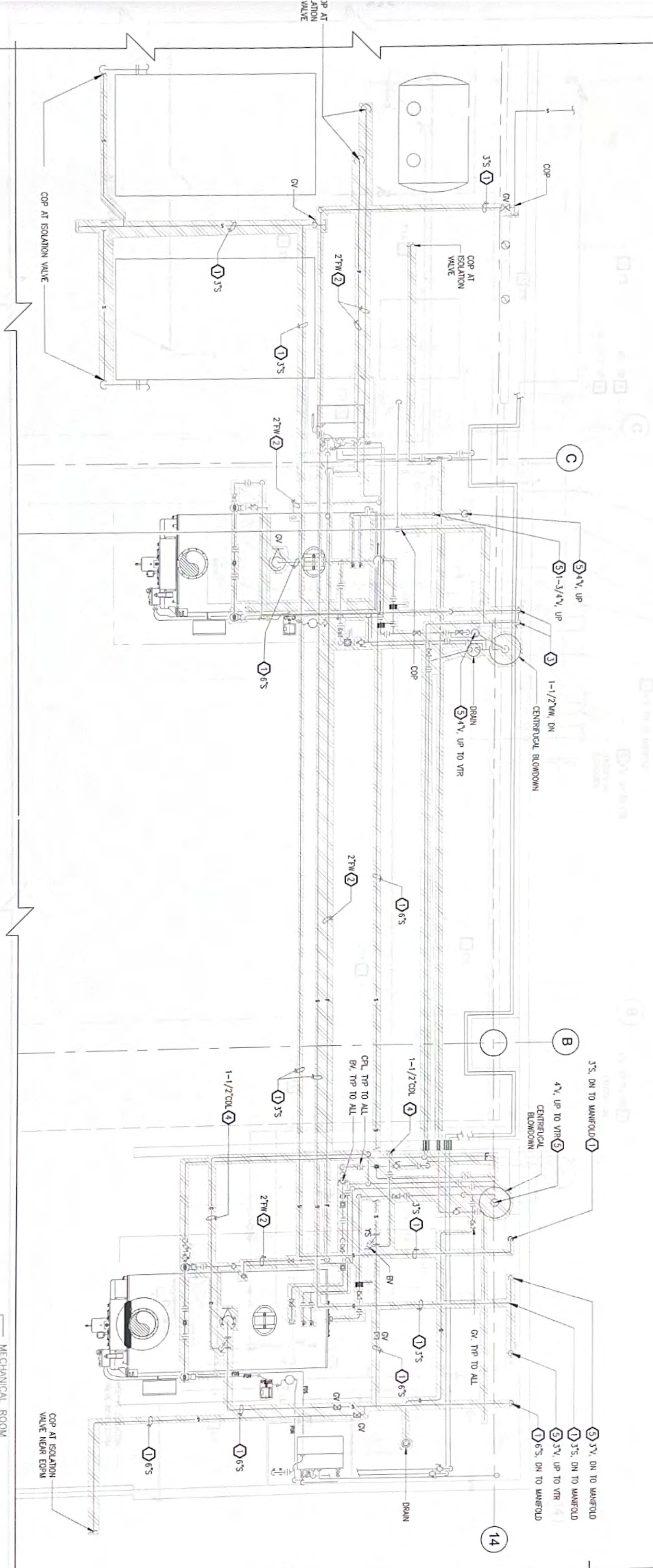
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Sheet No. 18 of 27

KEYED NOTES:

- ① REMOVE EXISTING AND PROVIDE NEW STEAM PIPING AND ASSOCIATED ACCESSORIES
- ② REMOVE EXISTING AND PROVIDE NEW FEED WATER PIPING AND ASSOCIATED ACCESSORIES
- ③ REMOVE EXISTING AND PROVIDE NEW MAKE-UP WATER PIPING AND ASSOCIATED ACCESSORIES
- ④ REMOVE EXISTING AND PROVIDE NEW CONDENSATE PIPING AND ASSOCIATED ACCESSORIES
- ⑤ REMOVE EXISTING AND PROVIDE NEW VENT PIPING AND ASSOCIATED ACCESSORIES

NOTES:

- 1. CONTRACTOR SHALL FIELD VERIFY ALL PIPE SIZES, VALVE SIZES, AND OTHER DEVICES & EQUIPMENT
- 2. REMOVE ITEMS SHOWN WITH HATCH LINES

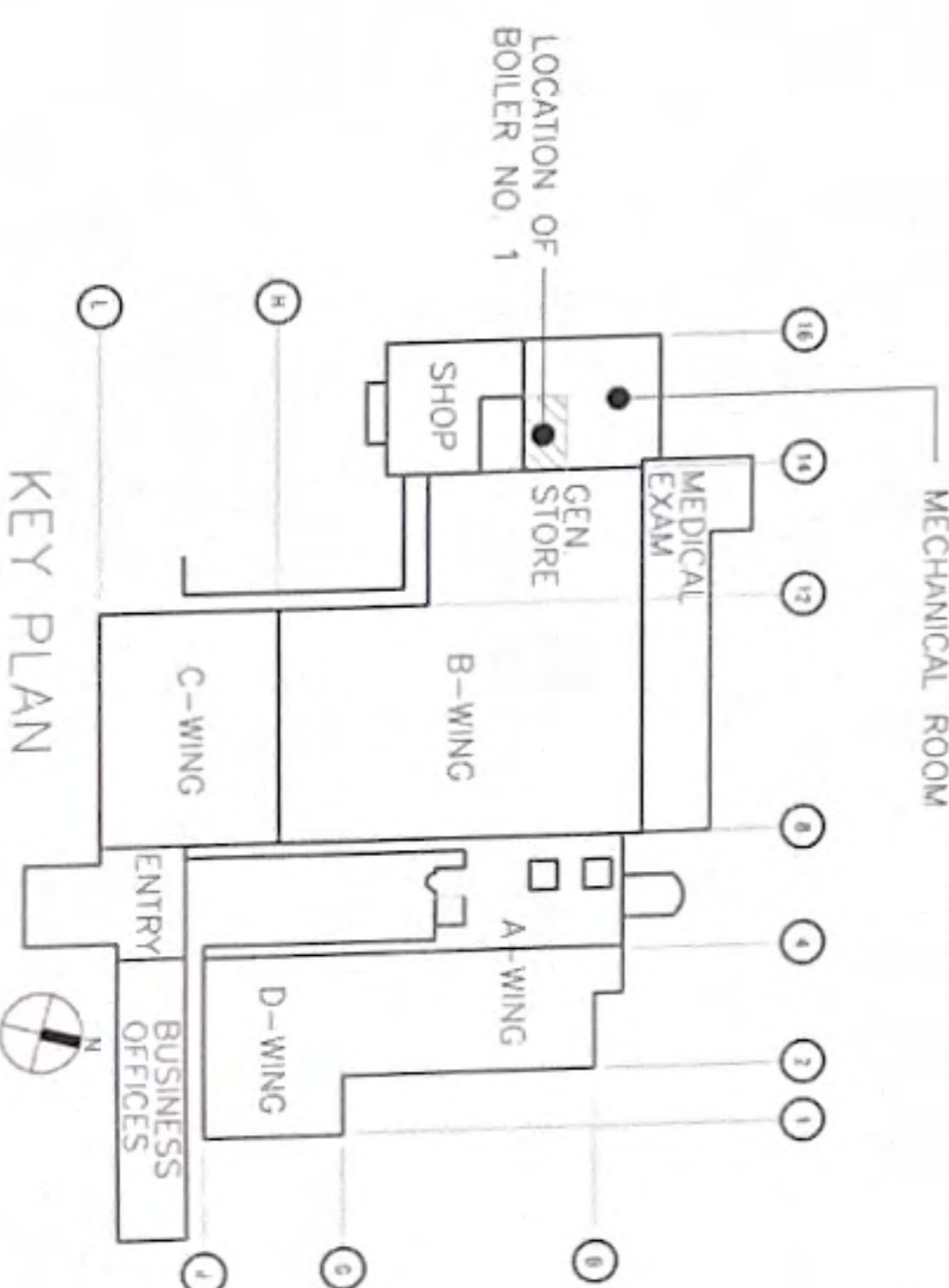


PHASE 4: STEAM, WATER & CONDENSATE PIPING REMOVAL PLAN

SCALE: 3/8" = 1'-0"

PHASE 4: STEAM, WATER & CONDENSATE PIPING PLAN

SCALE: 3/8" = 1'-0"



No.	Description	Date

RMT ENGINEERS, LLC
 MECHANICAL AND FIRE PROTECTION ENGINEERING SERVICES
 CONSTRUCTION MANAGEMENT SERVICES
 P.O. BOX 6663, TAMPUNING, GUAM 98931
 TEL: (671) 969-0766
 Email: admin@rmtengr.com



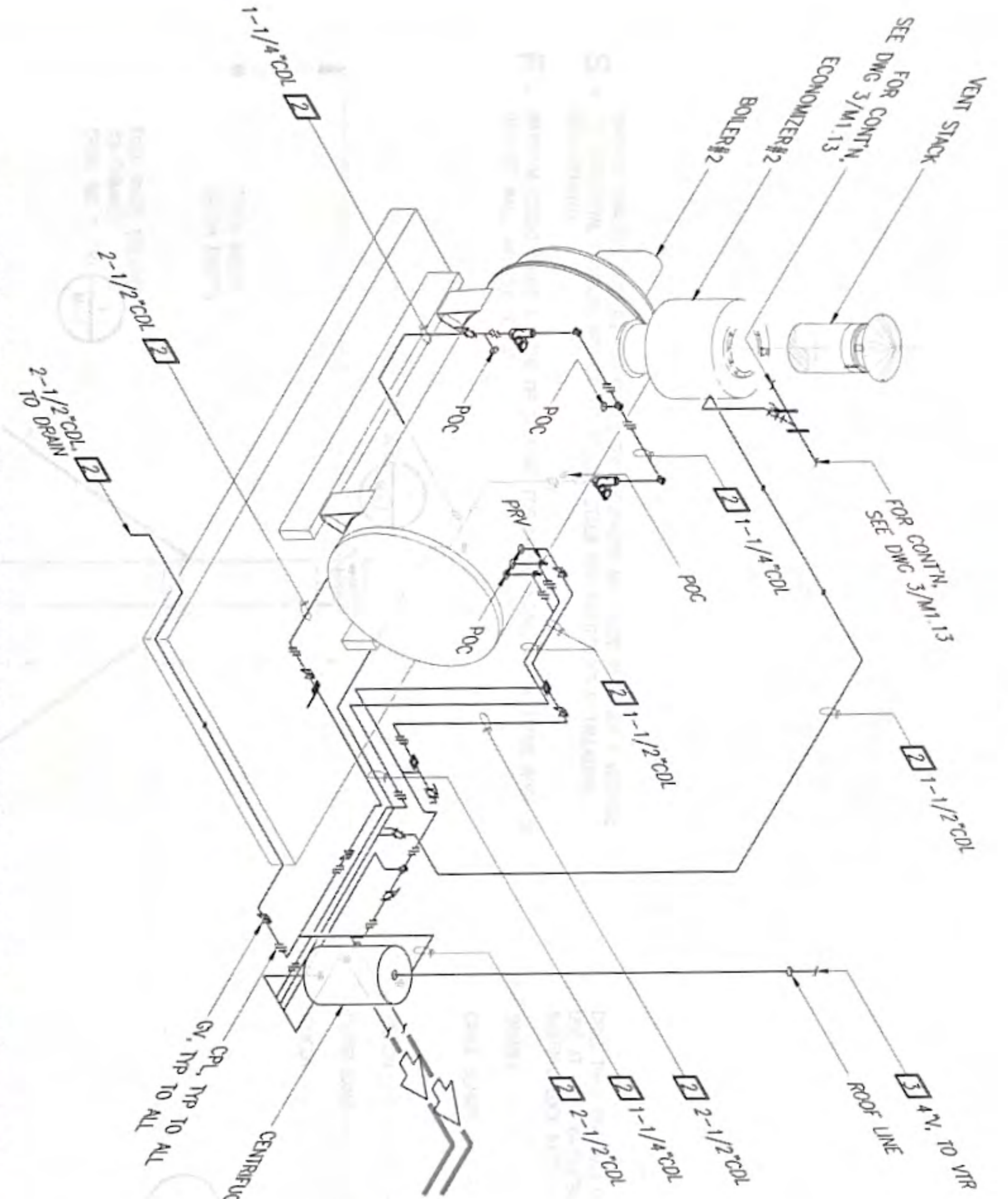
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION
 DATE: 10-23-24

Project: REPLACE BOILER NO. 1 & 2
Client: GUAM MEMORIAL HOSPITAL, TAMPUNING, GUAM

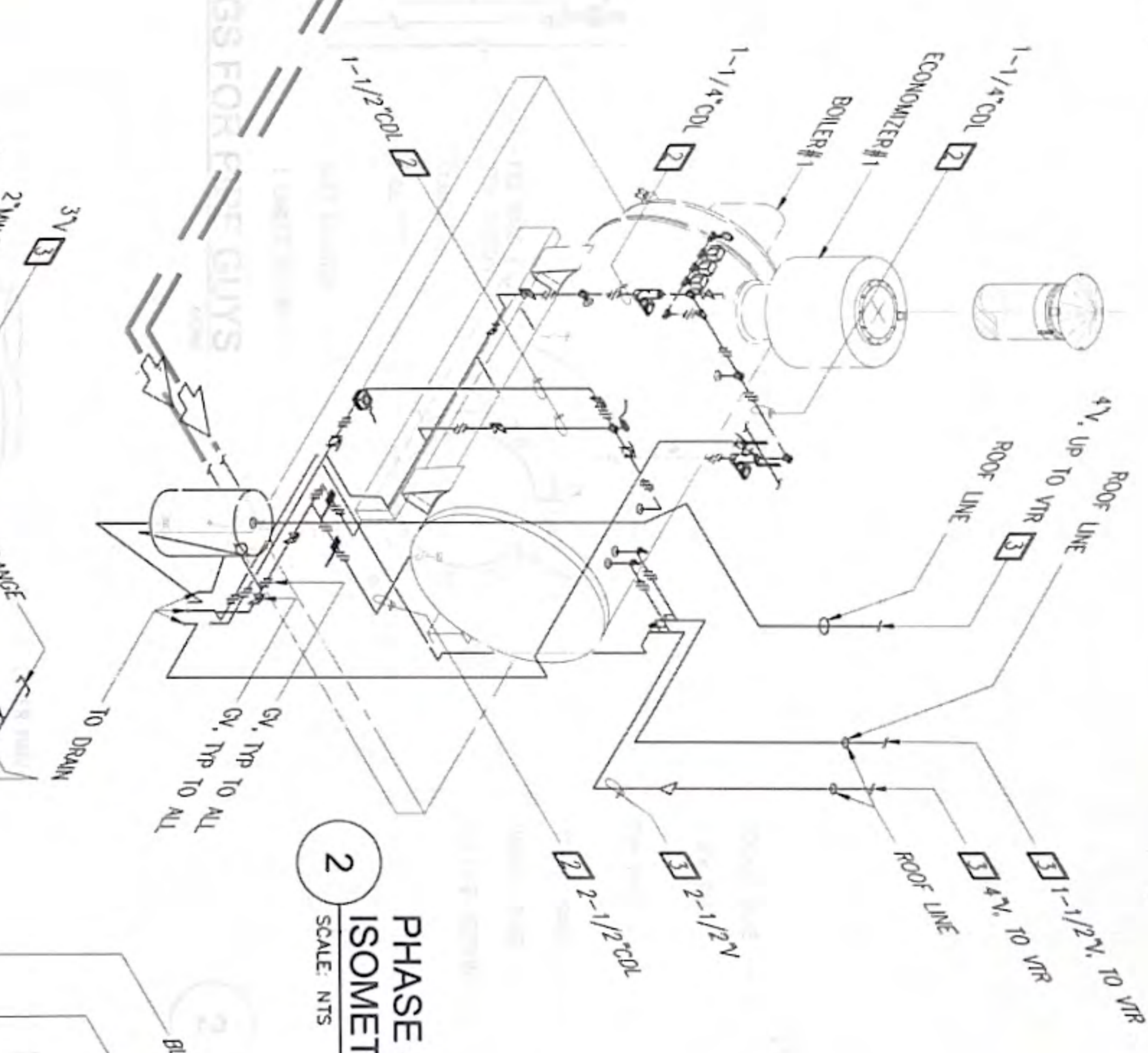
Title: PHASE 4: STEAM, WATER & CONDENSATE PIPING REMOVAL PLAN & NOTES

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Drawn: EMM
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Supr: RMT
Scale: AS SHOWN
Date: OCT. 23, 2024
Project No: 61K2215
AutoCAD File: 61K2215.M1.11
Drawing No:

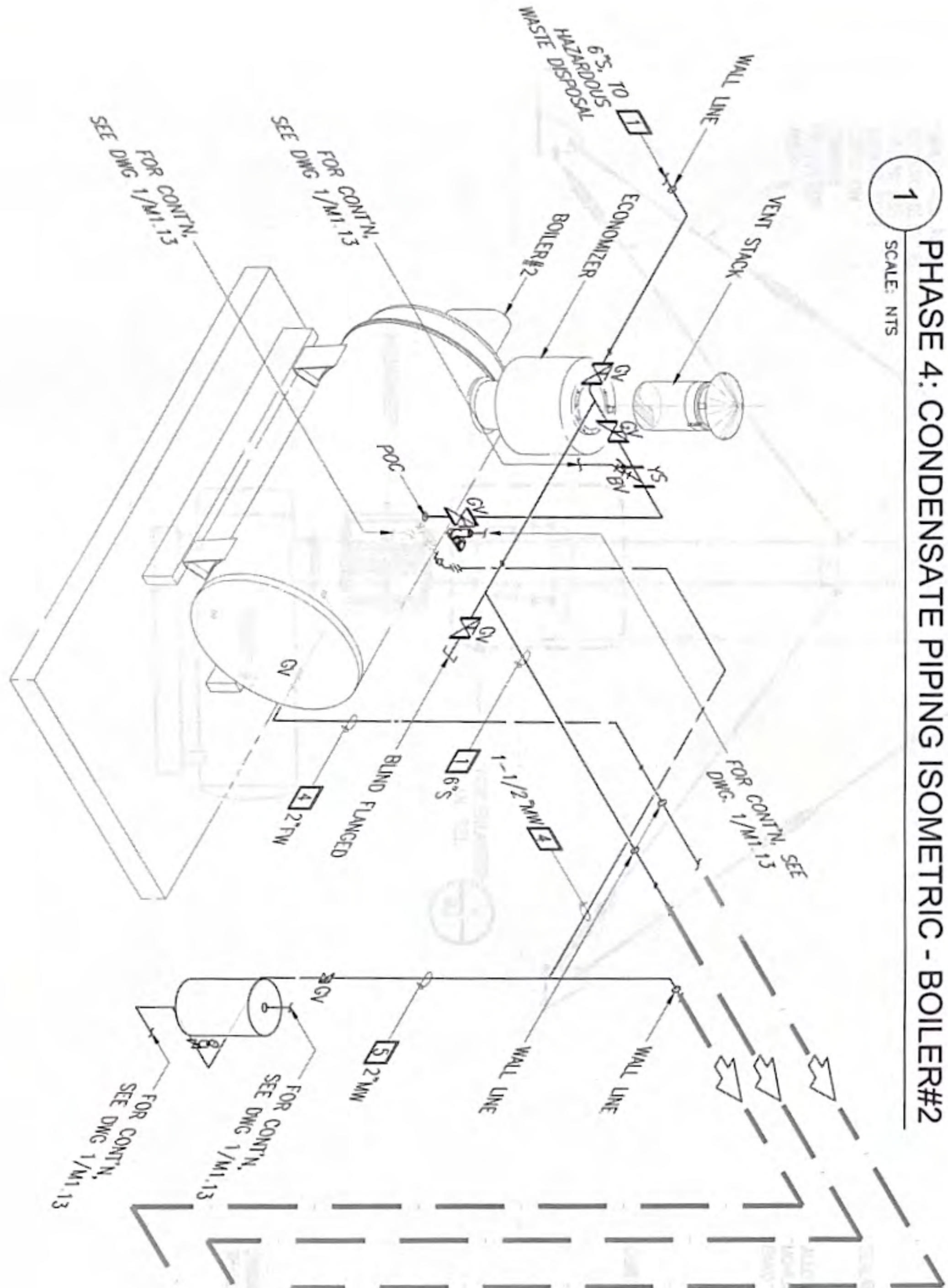
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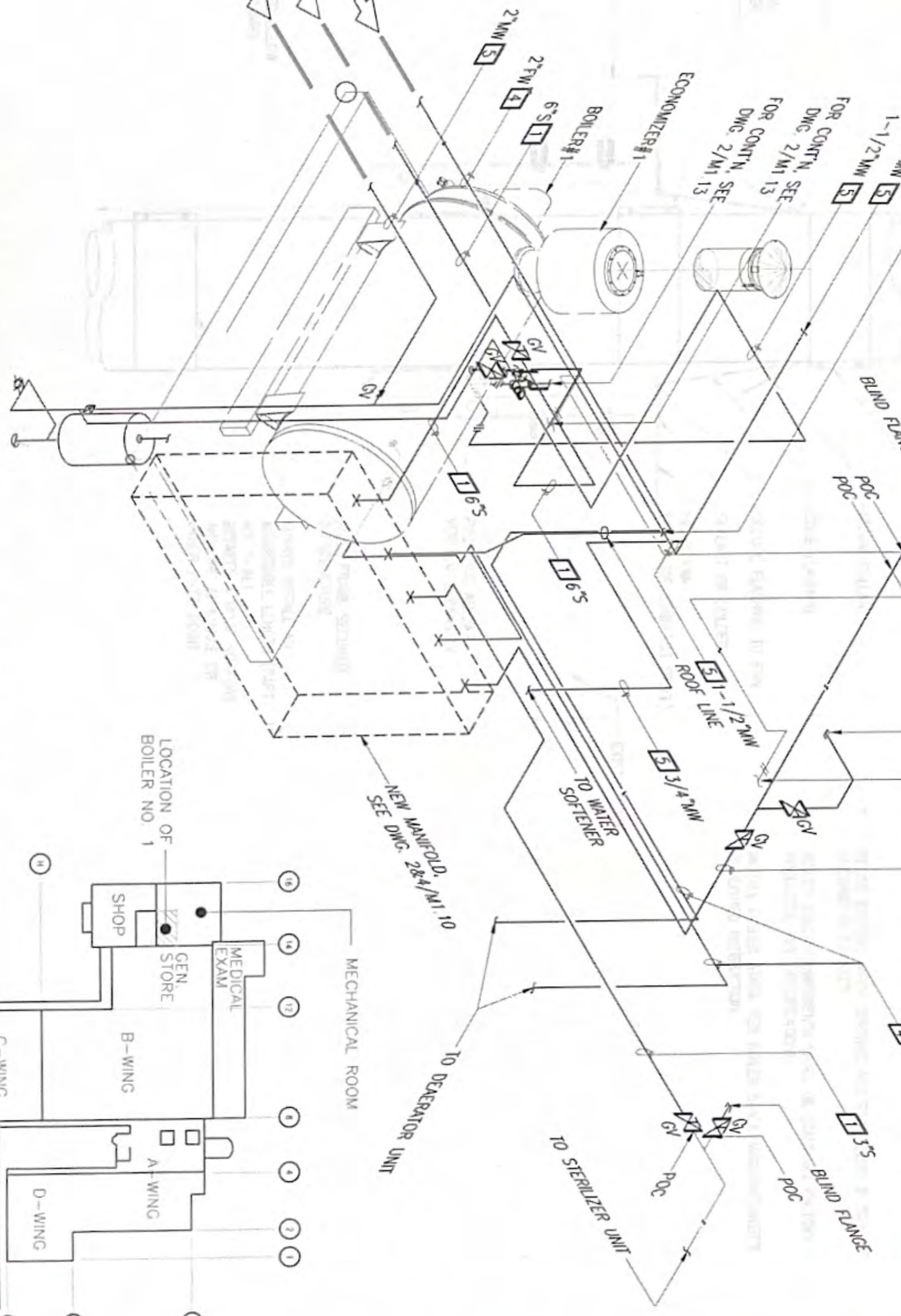
1 PHASE 4: CONDENSATE PIPING ISOMETRIC - BOILER#2
SCALE: NTS



2 PHASE 4: CONDENSATE PIPING ISOMETRIC - BOILER#1
SCALE: NTS

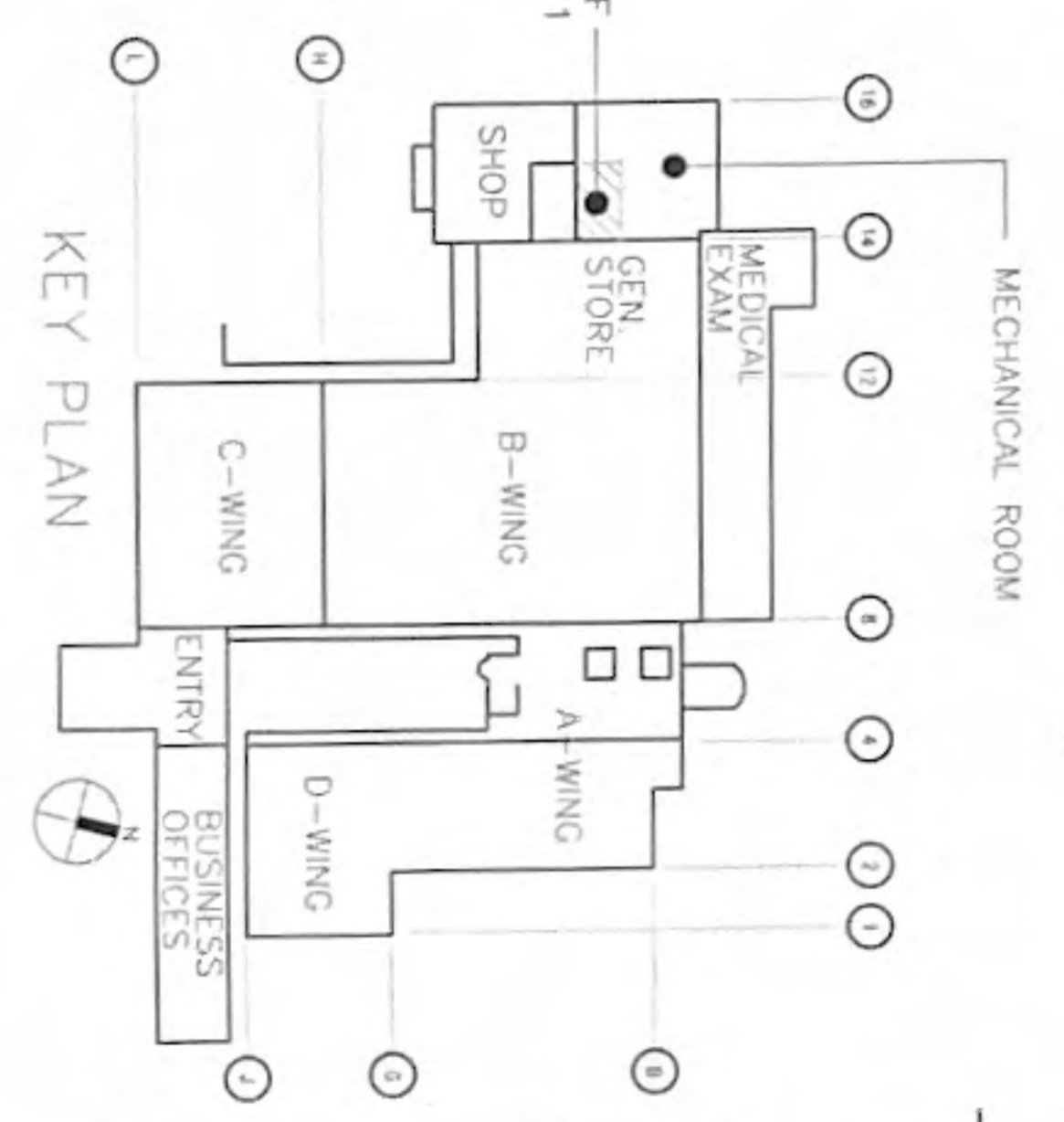


3 PHASE 4: STEAM, MAKE-UP WATER & FEED WATER PIPING ISOMETRIC - BOILER#2
SCALE: NTS



4 PHASE 4: STEAM, MAKE-UP WATER & FEED WATER PIPING ISOMETRIC - BOILER#1
SCALE: NTS

- KEYED NOTES:**
- 1 NEW STEAM PIPING
 - 2 NEW CONDENSATE PIPING
 - 3 NEW VENT PIPING
 - 4 NEW FEED WATER PIPING
 - 5 NEW MAKE-UP WATER PIPING
- NOTES:**
- 1 ITEMS IN HEAVY LINES ARE NEW
 - 2 ITEMS IN LIGHT LINES ARE EXISTING.



REVISIONS	
No.	Description

<p>RMT ENGINEERS, LLC MECHANICAL AND FIRE PROTECTION ENGINEERING SERVICES CONSTRUCTION MANAGEMENT SERVICES P.O. BOX 6633 TAMPUNING, GUAM 98031 TEL: (671) 589-0768 Email: sales@rmtengineers.com</p>	
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<p>Project: REPLACE BOILER NO. 1 & 2 GUAM MEMORIAL HOSPITAL TAMPUNING, GUAM</p>	<p>Title: PHASE 4: STEAM, WATER & CONDENSATE PIPING ISOMETRIC & NOTES</p>
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<p>Designed: RMT</p> <p>Drawn: EMM</p> <p>Checked: RMT</p> <p>Supv: RMT</p> <p>Scale: AS SHOWN</p> <p>Date: OCT. 23, 2024</p> <p>Project No: 61K2215 AutoCAD File: 61K2215 M1.13</p> <p>Drawing No: </p>	<p>100% SUBMITTAL</p>
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<p>Sheet No. M1.13 of 27</p>
