

MULTICARE GOOD SAMARITAN HOSPITAL VACUUM PUMP REPLACEMENT

APPROVED

Approval of submitted plans is not an approval of omissions or oversight by this office or noncompliance with any applicable regulations of local government. The contractor is responsible for making sure that the building complies with all applicable building codes and regulations of the local government.

PROJECT INFORMATION

OWNER
GOOD SAMARITAN HOSPITAL
PO BOX 1247
PUYALLUP, WA 98371

PROJECT MANAGER: STEVE PRIDEAUX (253) 732-5849
pridest@multicare.org

PROJECT MANAGER
CBRE

CONTACT: STEFANIE DYER (253) 208-0911
sdyer@multicare.org

DESIGN TEAM

ENGINEER
HULTZ BHU ENGINEERS, INC.
1111 FAWCETT AVENUE, SUITE 100
TACOMA, WASHINGTON 98402

MECHANICAL: MICHAEL TAGLES, PE (253) 383-3257
michaelt@hultzbhu.com

ELECTRICAL: NEIL MORSE, PE (253) 383-3257
neilm@hultzbhu.com

DRAWING INDEX

G1.0 COVER SHEET
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PROJECT DESCRIPTION

BASE BID:

- REMOVE THE EXISTING MEDICAL VACUUM PLANT EQUIPMENT SERVING THE EXISTING FOREST TOWER AND REPLACE WITH NEW MEDICAL VACUUM PLANT EQUIPMENT.

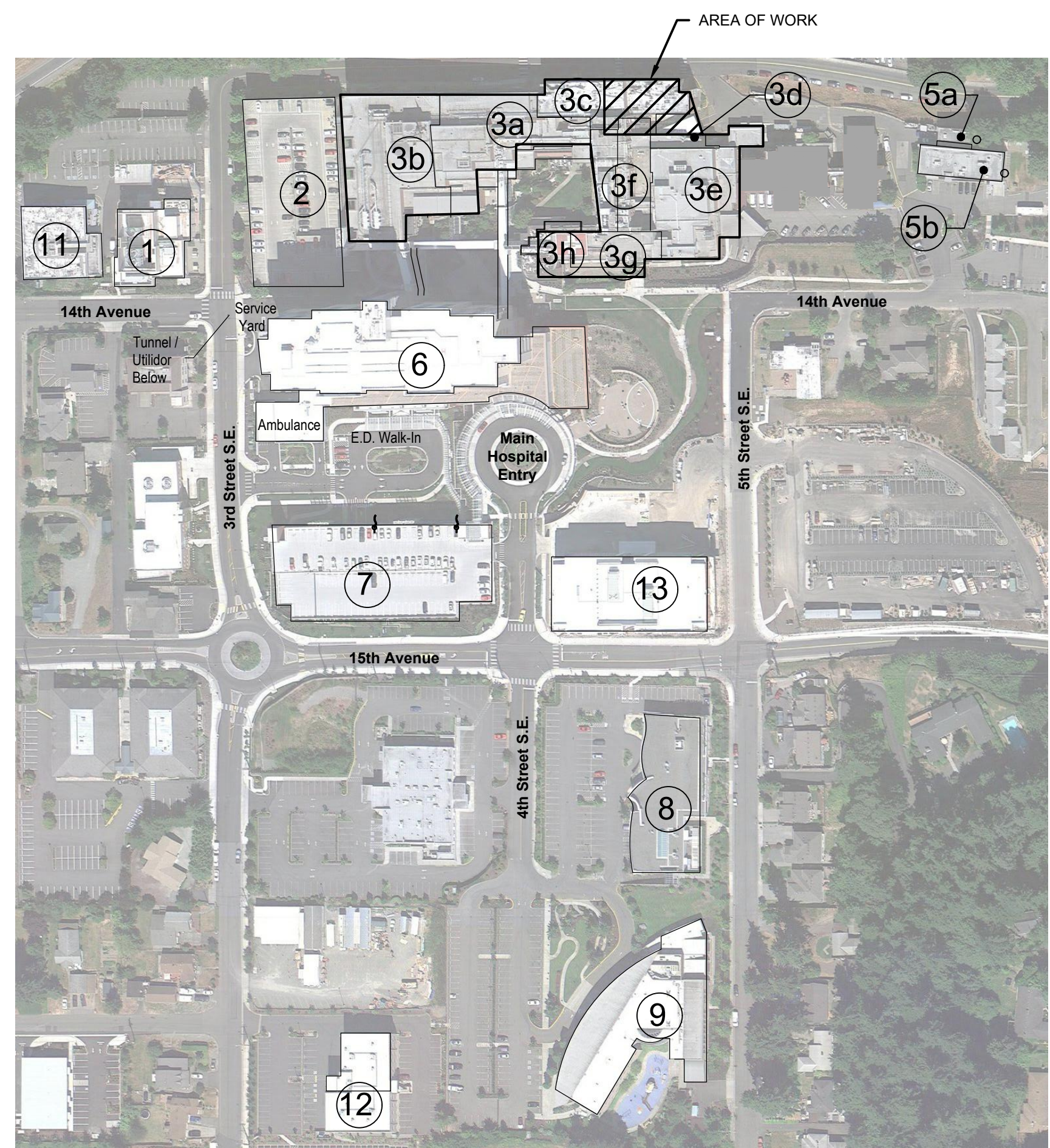
WORK RESTRICTIONS

- WORK HOURS SHALL BE 7:00 AM TO 4:30 PM, MONDAY THRU FRIDAY, ONLY.
- ELECTRICITY AND MEDICAL GAS SYSTEM INTERRUPTIONS REQUIRE 72 HOUR ADVANCE NOTICE AND AGREEMENT BY THE OWNER AS TO THE TIME, AND MAY ONLY OCCUR WITH THE OWNER'S PERMISSION. SUCH INTERRUPTIONS MAY ALSO OCCUR ONLY TWICE DURING THE PROJECT, AND MAY HAVE A MAXIMUM INTERRUPTION OF 2 HOURS PER OCCURRENCE.

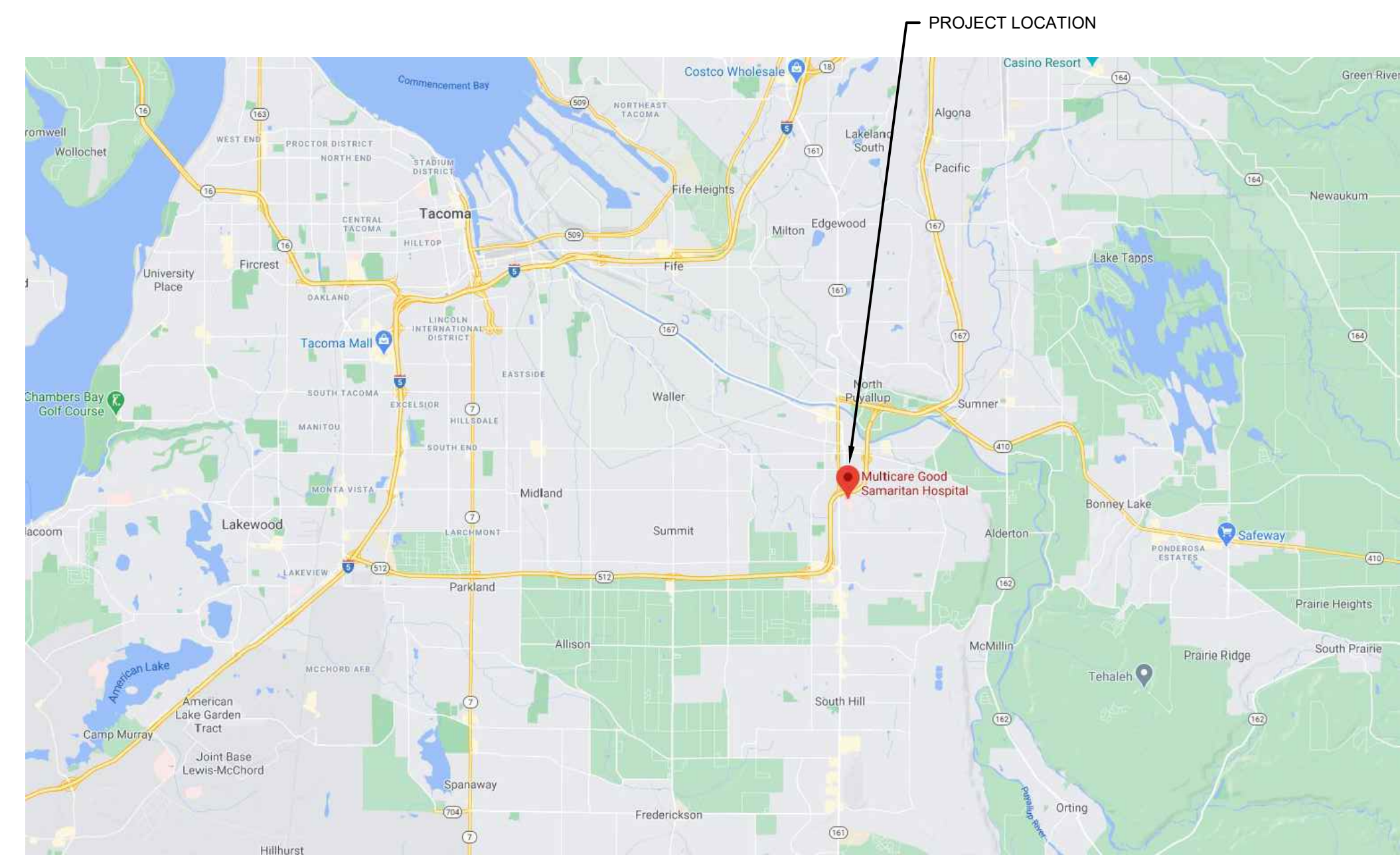
THE APPROVED CONSTRUCTION PLANS AND ALL ENGINEERING MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION. FULL SIZED LEDGIBLE COLOR PLANS ARE REQUIRED TO BE PROVIDED BY THE PERMITTEE ON SITE FOR ALL INSPECTIONS (MIN. PLAN SIZE 24" X 36")

PROJECT LOCATION

GOOD SAMARITAN HOSPITAL
401 15TH AVE SE
PUYALLUP, WA 98372



- 1 CENTRAL UTILITY PLANT
- 2 PARKING STRUCTURE 2
- 3a MEADOW (WEST 1)
- 3b MEADOW (WEST 2)
- 3c FOREST (NORTH)
- 3d RIVER (SUPPORT SERVICES)
- 3e RIVER (EAST)
- 3f RIVER (CENTRAL)
- 3g RIVER (SOUTH)
- 3h RIVER (LOBBY)
- 4a N/A
- 4b N/A
- 5a GENERATOR
- 5b FACILITIES
- 6 DALLY TOWER
- 7 PARKING STRUCTURE 1
- 8 CANCER CENTER
- 9 CHILDREN'S THERAPY UNIT
- 10 NOT SHOWN
- 11 PVMC
- 12 RIEDER BUILDING
- 13 MEDICAL OFFICE BUILDING



VICINITY MAP

Authorized to Begin Construction

Construction Review Services has authorized this project to begin construction.

- See accompanying project comment form for review status and corrections.
- This is not a building permit, check with your local building department.

12/29/2021 7:26:51 AM

SITE MAP

HULTZ BHU
engineers inc
1111 Fawcett Ave Suite 100 Tacoma, WA 98402
Phone: (253) 383-3257 Fax: (253) 383-3283
general@hultzbhu.com Job Number: 21-050

MULTICARE GOOD SAMARITAN HOSPITAL
VACUUM PUMP REPLACEMENT
401 15TH AVE SE, PUYALLUP, WA 98372



SHEET TITLE: COVER SHEET
DRAWN: MB CHECKED: MT
DATE: 06.09.21 PROJECT NO. 21-050
REVISIONS:

G1.0

0" 1" 2"
SHEET SIZE IS TRUE SCALE WHEN ABOVE LINE MEASURES AS NOTED

ENERGY CODE NOTES - WSEC 2018

1. PROVIDE COMMISSIONING PLAN & REPORT REQUIREMENTS FOR PRELIMINARY AND FINAL COMMISSIONING PER SECTION C408.1 AND C408.3. PROVIDE SEQUENCE OF OPERATIONS AND TEST PROCEDURES PER SECTION C408.1.2 AND SUBMIT COMPLIANCE CHECKLIST PER SECTION C408.1.3.4 OF THE WSEC TO THE BUILDING OFFICIAL UPON SUBSTANTIAL COMPLETION.

MECHANICAL GENERAL DEMOLITION NOTES

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. DEMOLITION DRAWINGS ARE INTENDED TO ONLY GIVE A GENERAL REPRESENTATION OF THE DEMOLITION INVOLVED, AND DO NOT CONSTITUTE A FULL LISTING OF ALL ITEMS REQUIRING REMOVAL. NOT ALL ITEMS TO BE DEMO'D ARE SHOWN. CONTRACTOR IS RESPONSIBLE TO REVIEW EXISTING CONDITIONS, EXISTING DRAWINGS, AND MECHANICAL GENERAL DEMOLITION NOTES. 2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW SITE CONDITIONS AND TO IDENTIFY ALL DEMOLITION WORK, AND INCLUDE IN HIS BID ALL COSTS FOR DEMOLITION & DISPOSAL. NOT ALL PLUMBING FIXTURES & HVAC ITEMS TO BE DEMO'D ARE SHOWN; SEE GENERAL NOTES FOR REQUIREMENTS. 3. EXIST. ITEMS SHOWN DASHED REPRESENT MAJOR MECHANICAL ITEMS TO BE REMOVED. SEE GENERAL NOTES, DRAWING NOTES & KEYED NOTES WHICH COVER ALL OTHER MISC. MECHANICAL ITEMS TO BE REMOVED. 4. ALL EXIST. ITEMS NOT BEING REUSED SHALL BE REMOVED. THIS INCLUDES SUCH ITEMS AS THERMOSTATS, CONTROL DEVICES, CONTROL WIRING, PNEUMATIC TUBING, DUCTS, PIPING, SUPPORTS, VALVES, AND RELATED ACCESSORIES. 5. ABANDONED ITEMS, ANCHORS, INSERTS, PIPE STUBS, AND OTHER PROJECTIONS NOT BEING CONCEALED BY NEW CONSTRUCTION SHALL BE REMOVED TO 1" BELOW THE ADJACENT FINISHED SURFACE, AND THE DISTURBED AREA PATCHED. 6. PATCH ALL WALL/FLOOR/CEILING OPENINGS LEFT BY REMOVAL OF EXIST. ITEMS. PATCH SO AS TO MATCH FINISH OF ADJACENT UNDISTURBED AREA. | <ol style="list-style-type: none"> 7. PROVIDE TEMPORARY CAP-OFF OF ALL EXIST. SYSTEMS TO ALLOW CONTINUED USE OF ALL SYSTEMS UNTIL THE FINAL SYSTEM COMPONENTS ARE INSTALLED AND CONNECTED (INCLUDE CW/HW/HWC, CONTROLS, ETC.). 8. HOLD ALL REMOVED ITEMS FOR OWNERS REVIEW. ITEMS SELECTED BY OWNER FOR SALVAGE SHALL BE MOVED BY THE CONTRACTOR TO THE OWNERS STORAGE ROOM (VERIFY EXACT LOCATION WITH OWNER). ITEMS NOT SELECTED BY OWNER FOR SALVAGE SHALL BE DISPOSED OF OFF SITE BY CONTRACTOR. 9. ROUTING SHOWN OF EXISTING ITEMS IS APPROXIMATE, CONTRACTOR SHALL FIELD VERIFY LOCATIONS, CONTENTS, AND FLOW DIRECTION OF ALL PIPING & DUCTS. LABELING SHOWN ON PLANS HAS NOT BEEN VERIFIED. 10. PROVIDE CAP-OFF OF ALL EXISTING UTILITIES THAT ARE CUT OR SERVED DEMO'D ITEMS. SYSTEMS TO BE CAPPED OFF INCLUDE HW, CW, AND HWC. ALL CAP-OFFS SHALL OCCUR IN A CONCEALED LOCATION. 11. SEE MECHANICAL FLOOR PLANS FOR RECONNECTION OF NEW PIPING. |
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MECHANICAL GENERAL NOTES

1. ALL WORK IS BASE BID UNLESS SPECIFICALLY NOTED AS ALTERNATE BID WORK.
2. ALL ITEMS ARE NEW UNLESS SPECIFICALLY NOTED AS EXISTING.
3. PIPE ROUTING: ALL PIPING SHOWN IS SCHEMATIC, CONTRACTOR SHALL PROVIDE ALL OFFSETS/ELBOWS AS REQ'D TO ALLOW ROUTING AROUND STRUCTURE, ELECTRICAL, & OTHER INTERFERENCES. ALL PIPING SHALL BE RUN CONCEALED, UNO.
4. PIPE SIZES: UNSIZED PIPING SHALL MATCH THE SIZE OF THE LARGEST ADJACENT CONNECTING PIPE SIZE SHOWN.
5. SEE WORK RESTRICTIONS ON SHEET G1.0.

MECHANICAL LEGEND

SYMBOL	DESCRIPTION	ABBREV.	DESCRIPTION
	MEDICAL VACUUM (MV)	AFF	ABOVE FINISHED FLOOR
	VENT (V)	APPROX	APPROXIMATELY
	WASTE ANESTHESIA GAS DISPOSAL	ARCH	ARCHITECTURAL
	COLD WATER (CW) OR BACKFLOW PROTECTED COLD WATER (BPCW)	ASSY	ASSEMBLY
	HOT WATER (HW) OR BACKFLOW PROTECTED HOT WATER (BPHW)	AAV	AUTOMATIC AIR VENT
	HOT WATER CIRCULATING (HWC) OR BACKFLOW PROTECTED HOT WATER CIRCULATING (BPHWC)	BTU	BRITISH THERMAL UNIT
	CONDENSATE (C)	BTUH	BRITISH THERMAL UNIT/HOUR
	FLOOR CLEANOUT (FCO)	BLDG	BUILDING
	ISOLATION VALVE - SEE SPECIFICATIONS FOR TYPE	CAP	CAPACITY
	BALANCING VALVE	CLG	CEILING
	TWO-WAY CONTROL VALVE	CONN	CONNECTION
	THREE-WAY CONTROL VALVE	CONT	CONTINUE, CONTINUATION
	PIPE UP	CFM	CUBIC FEET PER MINUTE
	PIPE DOWN	CW	COLD WATER
	PIPE TEE IN LINE, BRANCH PIPE DOWN	DEG F, °F	DEGREE FAHRENHEIT
	UNION	DIA, Ø	DIAMETER
	RELIEF VALVE OR SAFETY VALVE	DN	DOWN
	STRAINER WITH BLOW-OFF VALVE	DWNG	DRAWING
	CONCENTRIC REDUCER	DB	DRY BULB
	HOSE BIBB	EA	EACH
	AUTOMATIC AIR VENT	EFF	EFFICIENCY
	MANUAL AIR VENT	ELEC	ELECTRICAL, ELECTRIC
	PRESSURE GAUGE	EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
	PRESSURE REDUCING VALVE	EXH	EXHAUST
		EXIST, (E)	EXISTING
		ETR	EXISTING TO REMAIN
		FPM	FEET PER MINUTE
		FLEX	FLEXIBLE
		FL	FLOOR
		FLA	FULL LOAD AMPS
		GAL	GALLON
		G	GAS
		HB	HOSE BIBB
		HP	HORSE POWER
		INTEGR.	INTEGRAL
		IN	INCH
		I.E.	INVERT ELEVATION
		L	LINING
		MAV	MANUAL AIR VENT
		MAX	MAXIMUM
		MFR	MANUFACTURER
		MBH	THOUSAND BTUH
		MECH	MECHANICAL
		MIN	MINIMUM
		NO	NORMALLY OPEN
		NC	NORMALLY CLOSED
		NO.	NUMBER
		NTS	NOT TO SCALE
		PH	PHASE
		PD	PRESSURE DROP
		R	RETURN
		RLA	RATED LOAD AMPS
		RP	REDUCED PRESSURE
		REF	REFERENCE
		REQ'D	REQUIRED
		RPM	REVOLUTIONS PER MINUTE
		RM	ROOM
		S	SUPPLY
		TEMP	TEMPERATURE
		TYP	TYPICAL
		UNO	UNLESS NOTED OTHERWISE
		VFD	VARIABLE FREQUENCY DRIVE
		VTR	VENT THROUGH ROOF
		V	VOLTS, VOLTAGE, VENT
		WC	WATER COLUMN
		W	WASTE
		WA	WASTE
		W	WITH
	DETAIL/SECTION IDENTIFICATION NUMBER SHEET ON WHICH DETAIL IS SHOWN		

NOTE: FOR DESCRIPTION OF OTHER ABBREVIATIONS SEE SYMBOL LISTING TO THE LEFT, EQUIPMENT/ITEMS SCHEDULES, AND ABBREVIATIONS LISTED IN SPECIFICATIONS

HULTZ BHU
 e n g i n e e r s i n c
 1111 Fenwick Ave Suite 100 Tacoma, WA 98402
 Phone: (253) 383-3257 Fax: (253) 383-3283
 general@hultzbhu.com Job Number: 21-050

**MULTICARE GOOD SAMARITAN HOSPITAL
 VACUUM PUMP REPLACEMENT**
 401 15TH AVE SE, PUYALLUP, WA 98372



SIGNED
06-09-2021

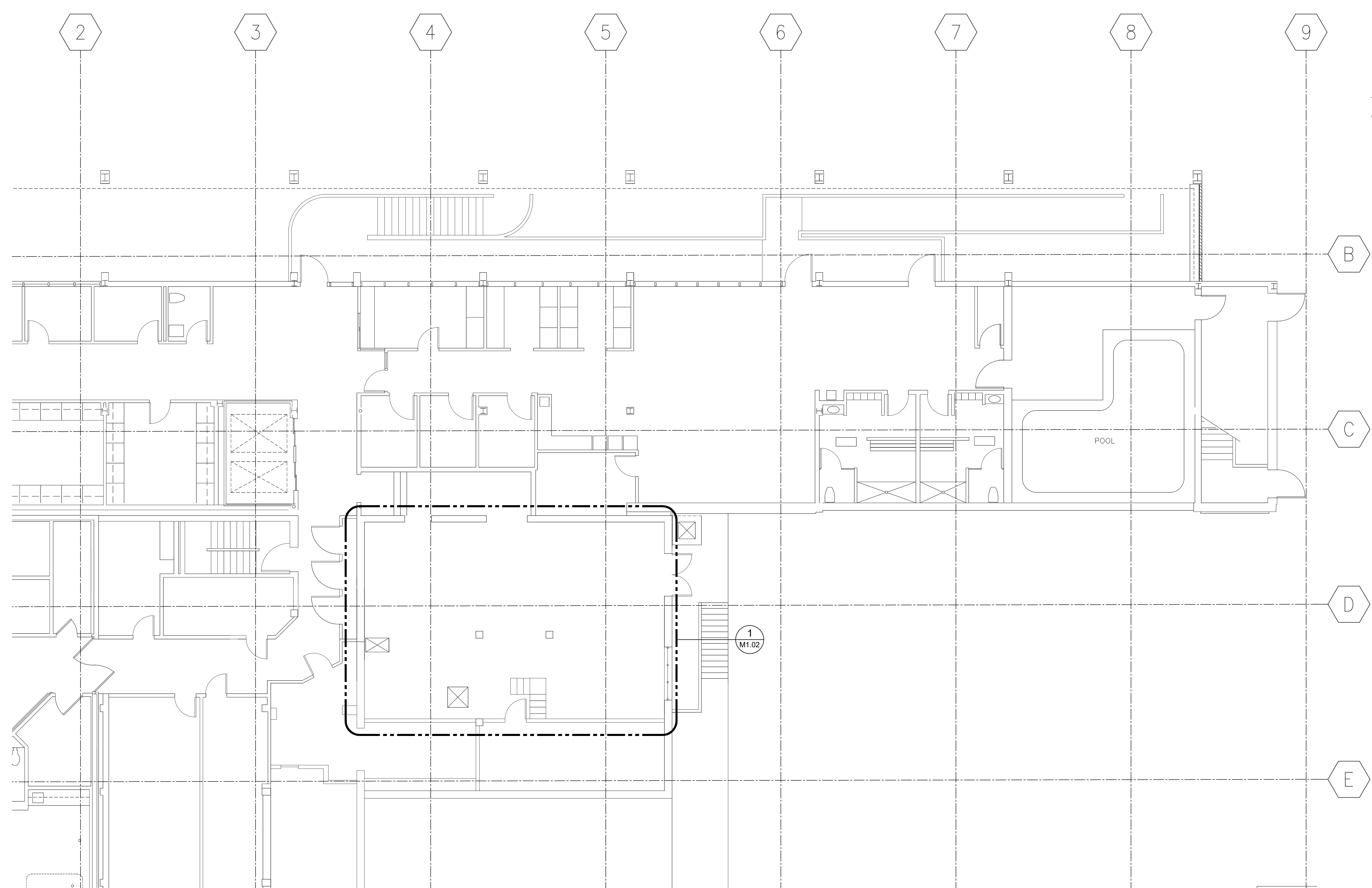
MECHANICAL LEGEND & NOTES
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 DRAWN: MB CHECKED: MT
 DATE: 06.09.21 PROJECT NO. 21-050
 REVISIONS:

M0.01

0" 1" 2"
 SHEET SIZE IS TRUE SCALE WHEN ABOVE LINE MEASURES AS NOTED

A | B | C | D | E | F | G | H | J | K

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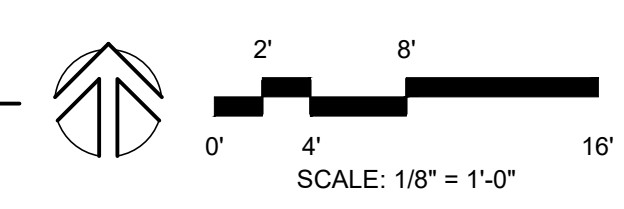
GENERAL NOTES:

- SEE MECHANICAL GENERAL DEMOLITION NOTES ON SHEET M0.01.
- NOT ALL KEYED NOTES USED ON EACH SHEET.

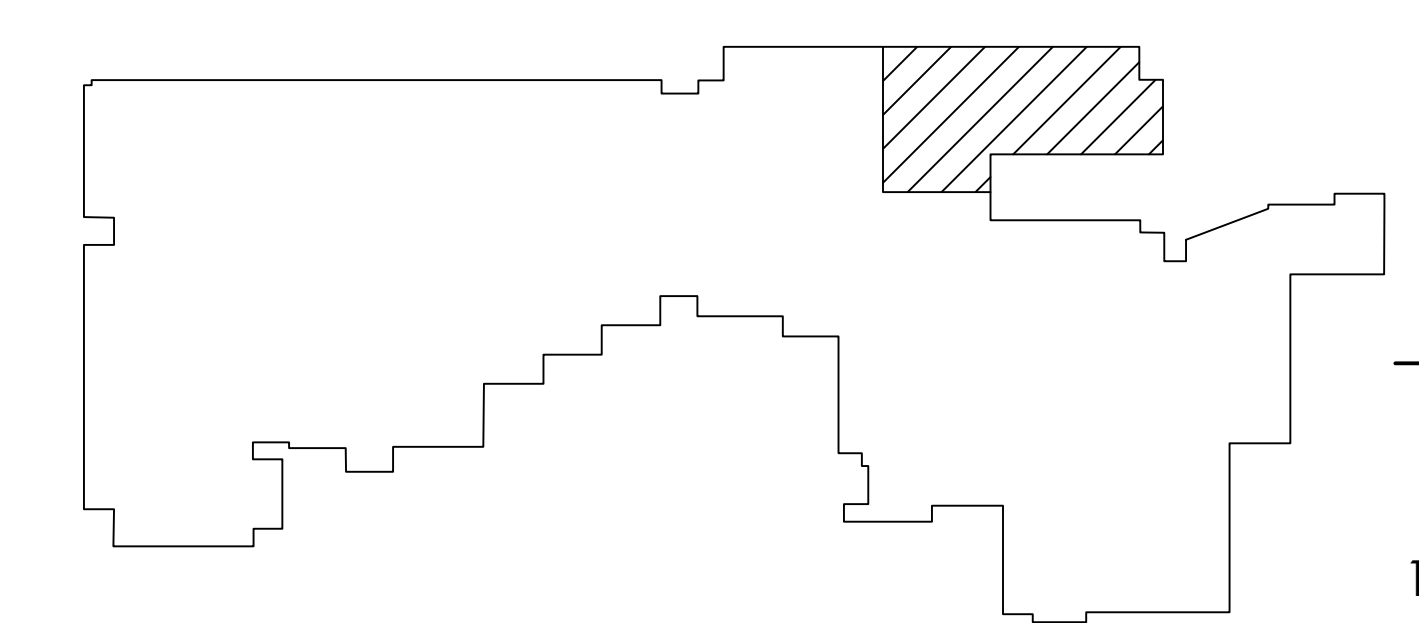
KEYED NOTES:

- (E) 4-INCH INERTIE TO DALLY TOWER MEDICAL VACUUM PUMP SYSTEM MVP-1 SHALL REMAIN ACTIVE

PARTIAL 1ST FLOOR PLAN - MECHANICAL DEMO
SCALE: 1/8"=1'-0"



KEYPLAN



PERMIT RESUBMITTAL SET 10-14-21

A | B | C | D | E | F | G | H | J | K

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engineers inc
1111 Fawcett Ave Suite 100 Tacoma, WA 98402
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SHEET TITLE: PARTIAL 1ST FLOOR PLAN - MECHANICAL DEMO
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REVISIONS:

M1.01

0' 1' 2'
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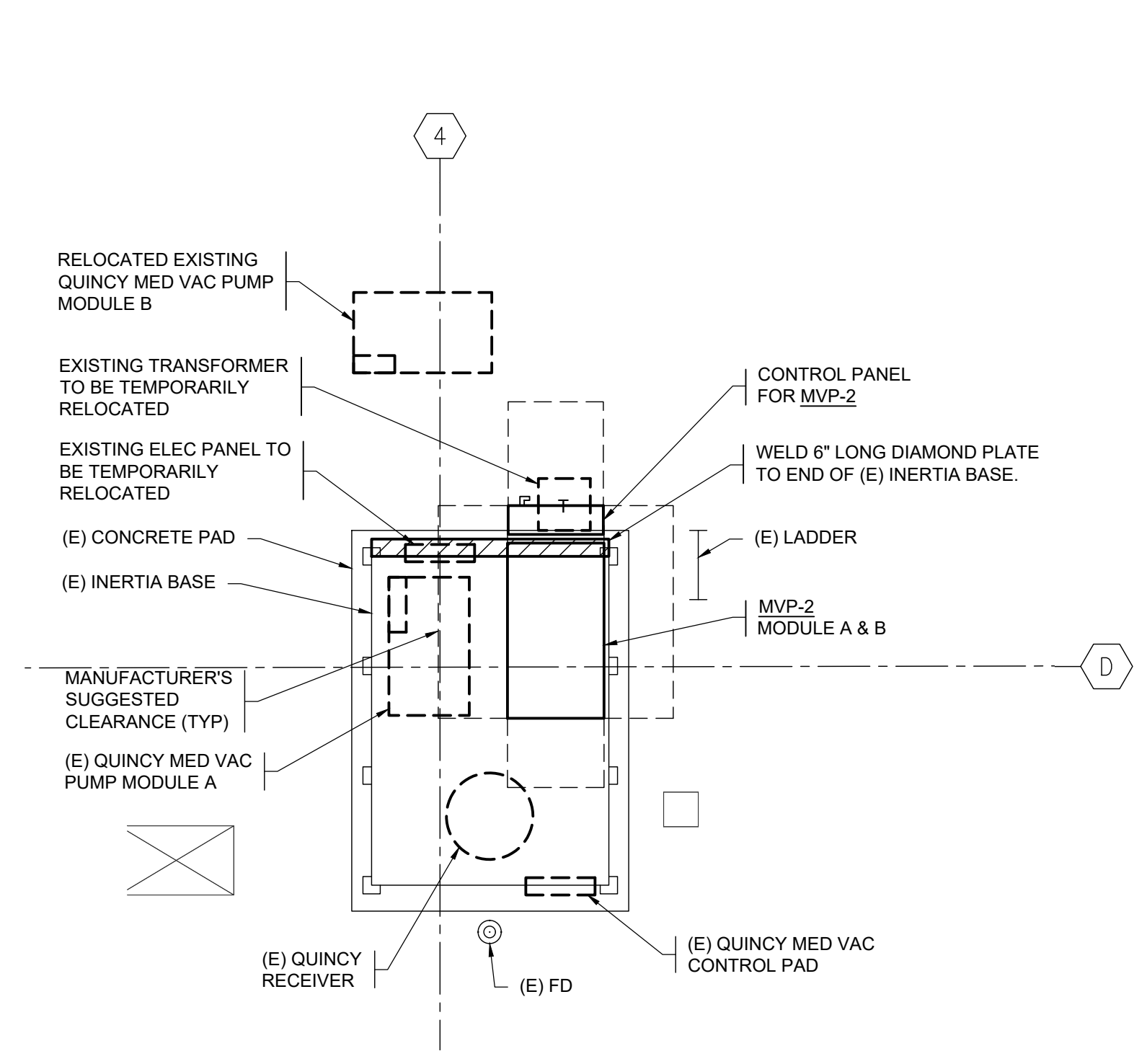
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GENERAL NOTES:

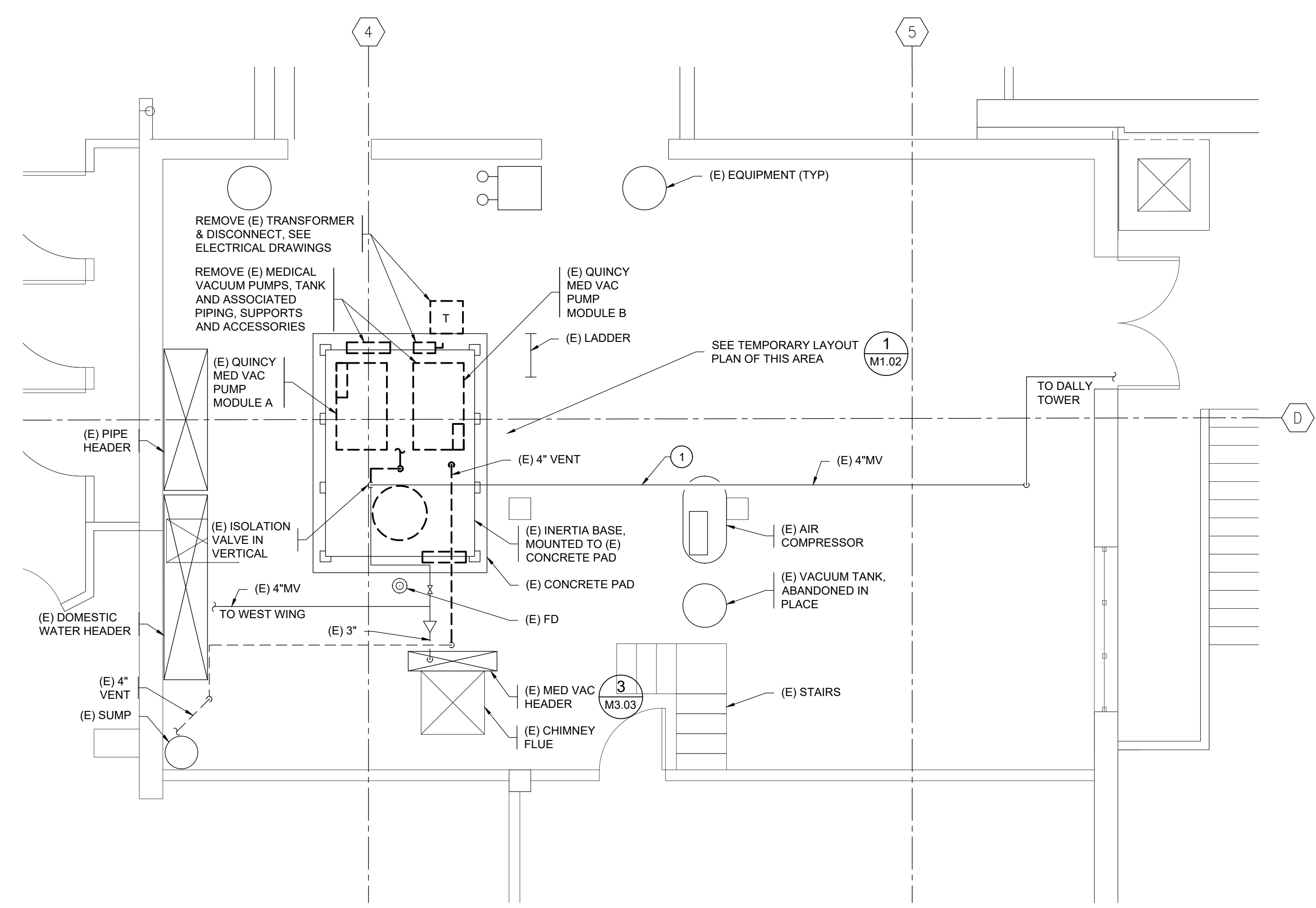
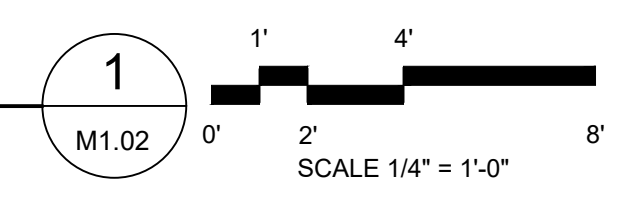
- SEE MECHANICAL GENERAL DEMOLITION NOTES ON SHEET M0.01.
- NOT ALL KEYED NOTES USED ON EACH SHEET.

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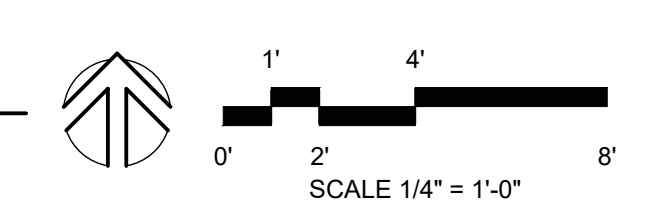
- ① (E) 4-INCH INTERTIE TO DALLY TOWER MEDICAL VACUUM PUMP SYSTEM MVP-1 SHALL REMAIN ACTIVE



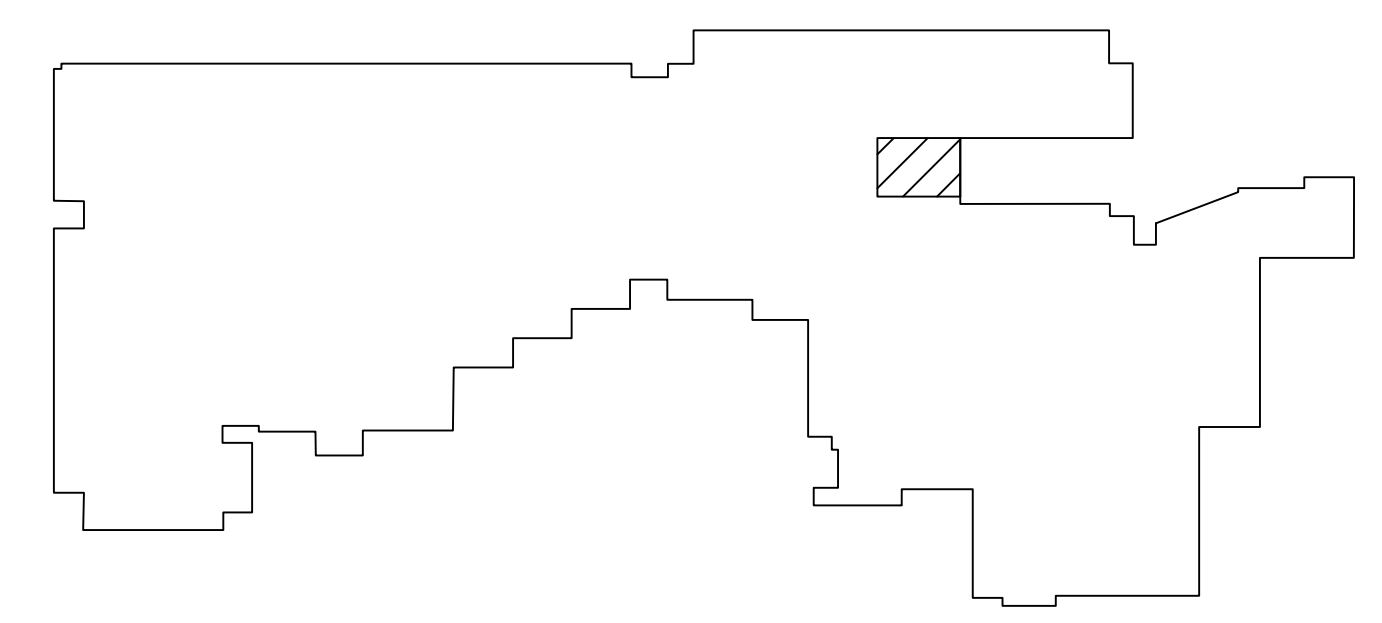
PARTIAL EQUIPMENT PLAN - TEMPORARY LAYOUT AT INERTIA BASE
SCALE: 1/4"=1'-0"



ENLARGED PLAN - MECHANICAL ROOM DEMO
SCALE: 1/4"=1'-0"



KEYPLAN



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MultiCare

SIGNED
06-09-2021

SHEET TITLE: ENLARGED PLAN - MECHANICAL ROOM DEMO
DRAWN: MB CHECKED: MT
DATE: 06.09.21 PROJECT NO. 21-050
REVISIONS:

M1.02
SHEET SIZE IS TRUE SCALE WHEN ABOVE LINE MEASURES AS NOTED

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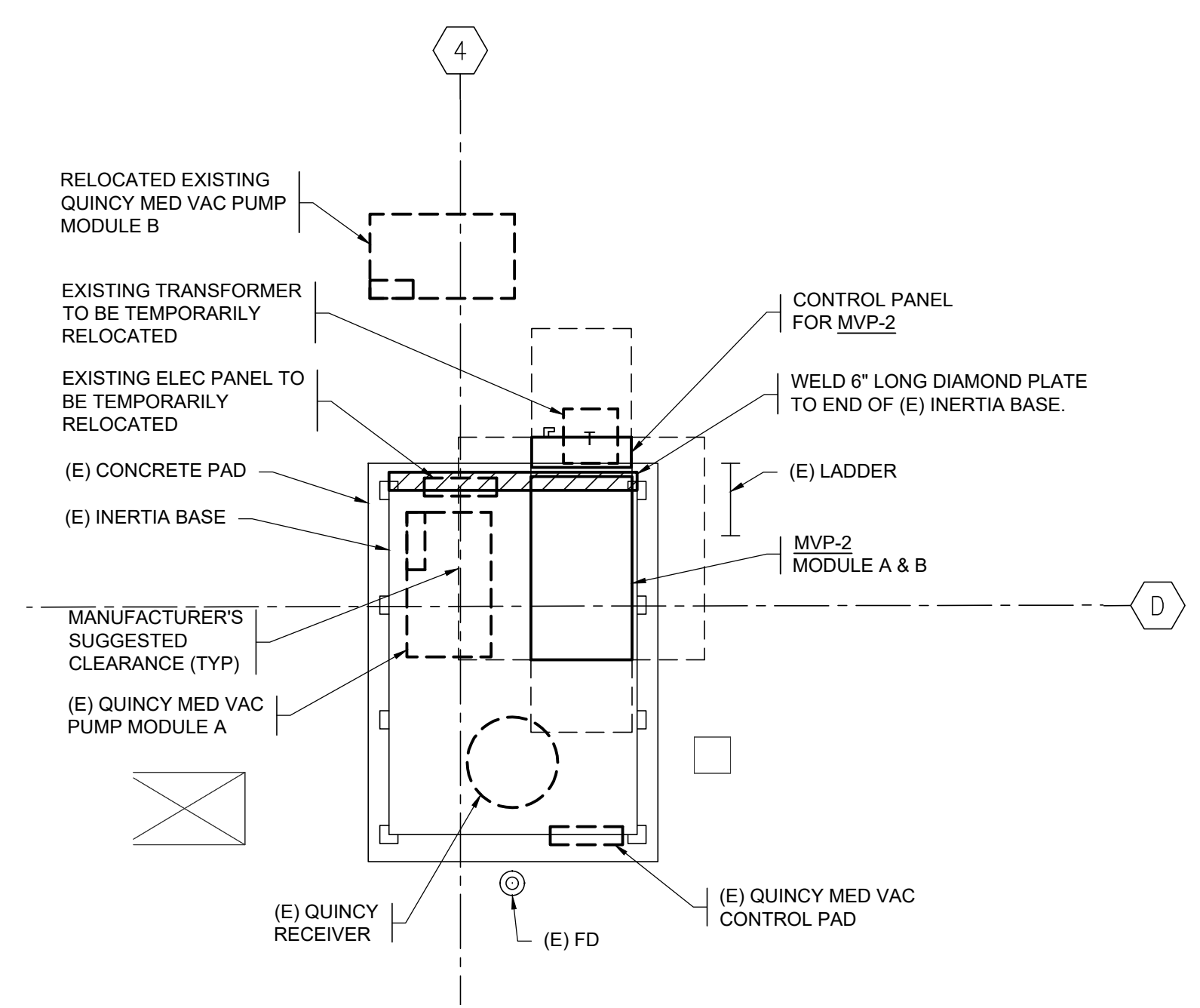
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GENERAL NOTES:

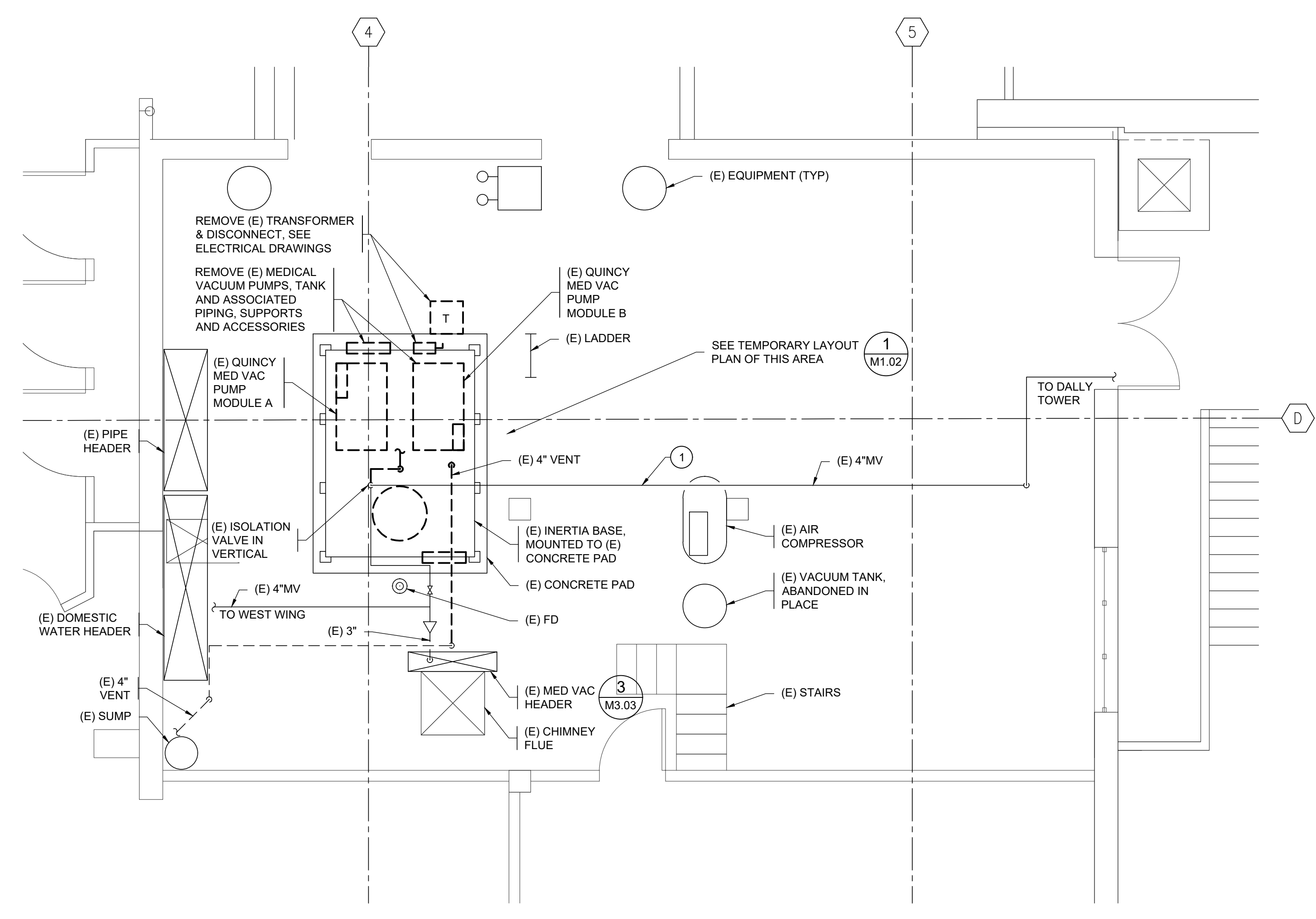
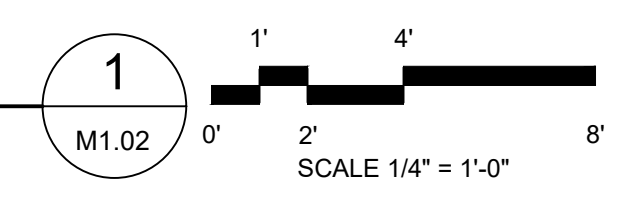
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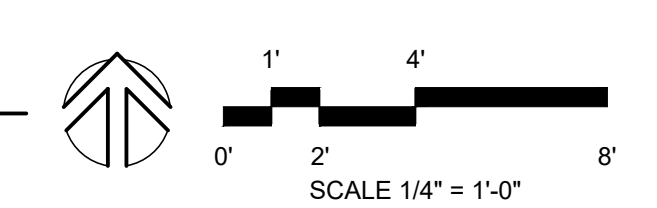
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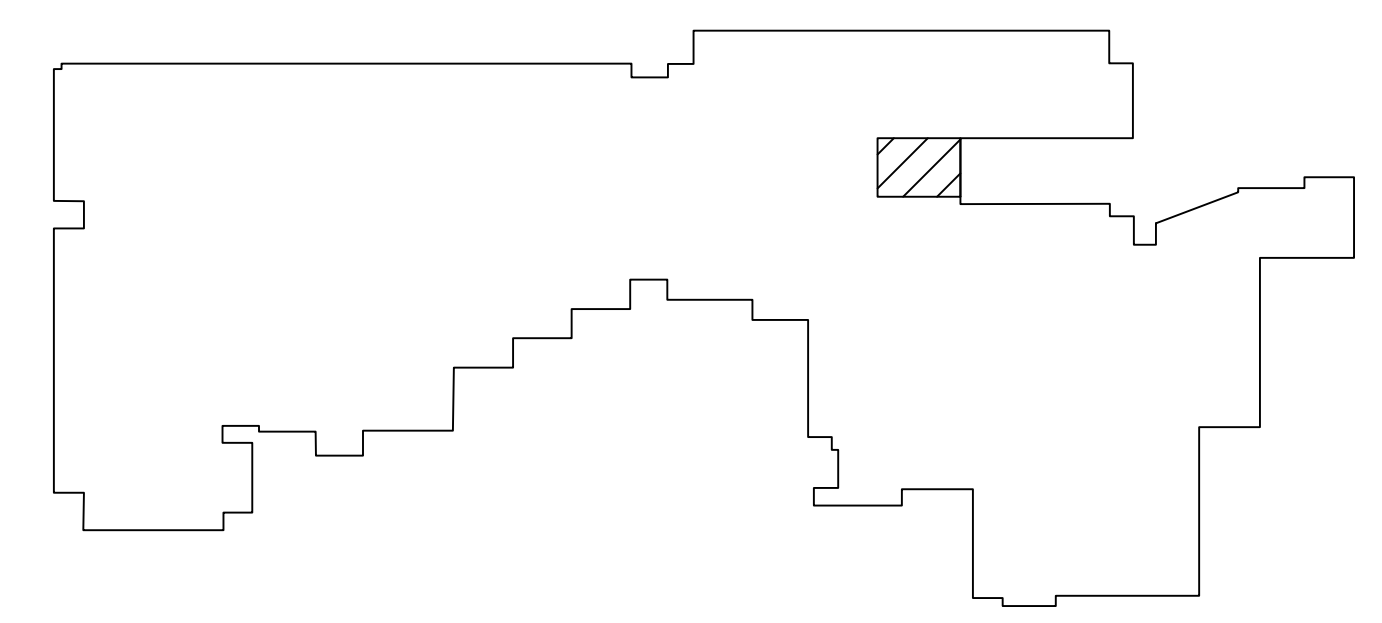
PARTIAL EQUIPMENT PLAN - TEMPORARY LAYOUT AT INERTIA BASE
SCALE: 1/4"=1'-0"



ENLARGED PLAN - MECHANICAL ROOM DEMO
SCALE: 1/4"=1'-0"



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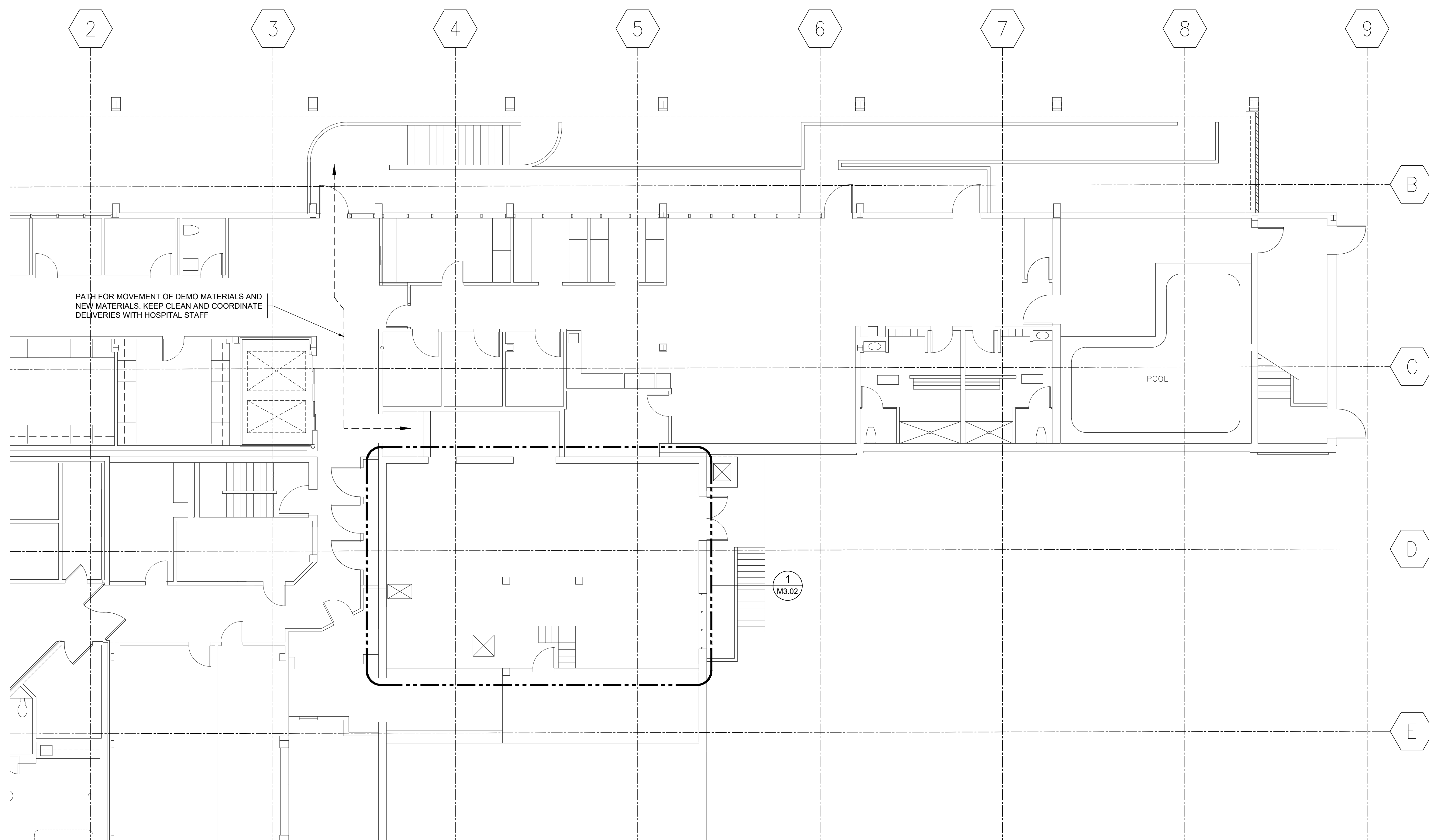
ENLARGED PLAN - MECHANICAL ROOM DEMO
SHEET TITLE: ENLARGED PLAN - MECHANICAL ROOM DEMO
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M1.02

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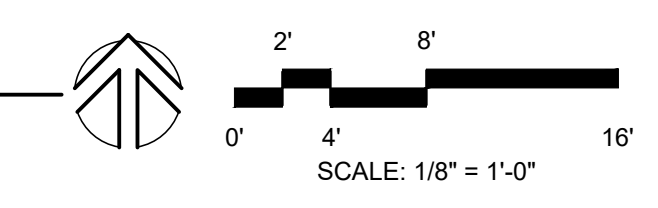
GENERAL NOTES:

- SEE MECHANICAL GENERAL NOTES ON SHEET M0.01.
- MEDICAL GAS SYSTEM IS A LEVEL 1 SYSTEM UNDER NFPA 99. PROVIDE ALL ACCESSORIES REQUIRED FOR COMPLIANCE.
- MEDICAL GAS SYSTEM THIRD PARTY INSPECTOR: HARRY POMERANZ, MEDICAL GAS SERVICES, 425-894-5918.
- PROVIDE PIPING IDENTIFICATION. SEE SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
- LOW VOLTAGE AND POWER TO BE BY ELECTRICIAN. CONNECT PRESSURE SENSOR AND ALARMS FROM MVP-2 TO HOSPITAL MEDICAL GAS ALARM SYSTEM.
- LOCATIONS OF MVP-2 RECEIVER AND PF-2 ARE PRELIMINARY. FIELD VERIFY LOCATION, THEN CONFIRM WITH HOSPITAL FACILITIES STAFF.
- SEE SCHEMATIC ON SHEET M3.03 FOR PIPING ARRANGEMENT, EQUIPMENT CONNECTIONS, AND OTHER PROJECT REQUIREMENTS.
- NOT ALL KEYED NOTES USED ON EACH SHEET.

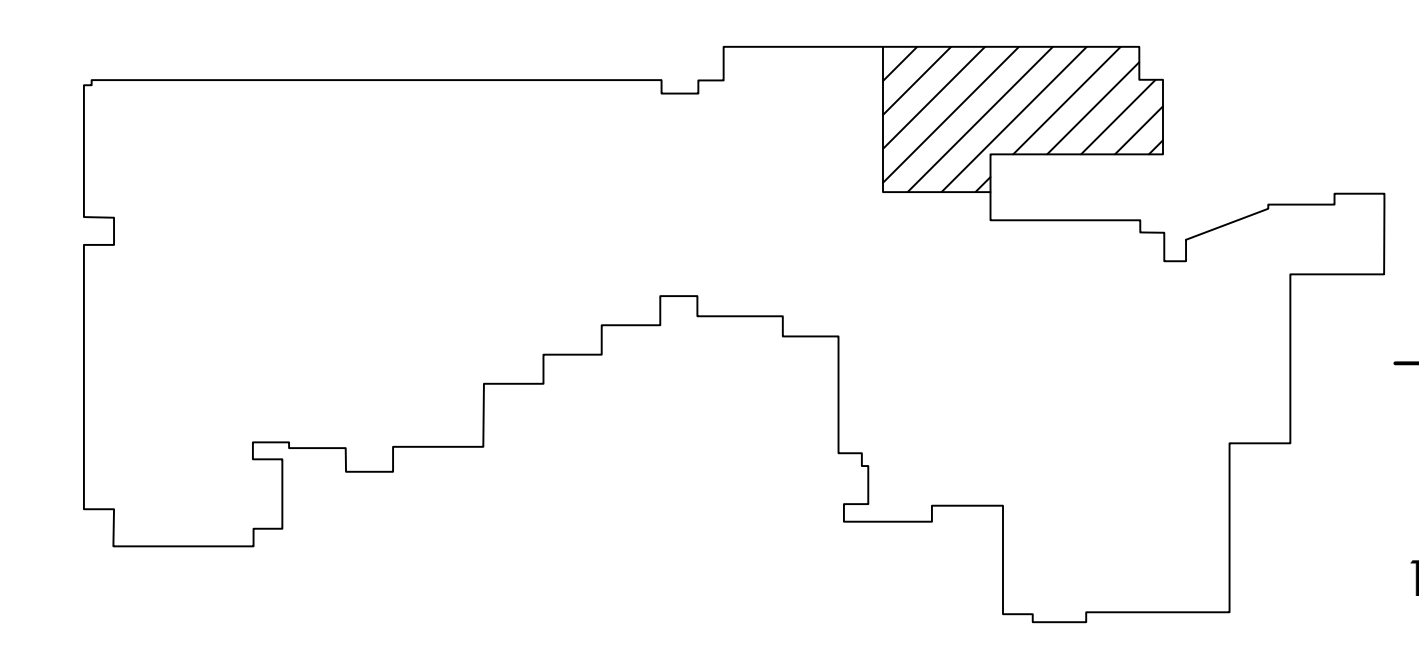
KEYED NOTES:

- (E) 4-INCH INERTIE TO DALLY TOWER MEDICAL VACUUM PUMP SYSTEM MVP-1 SHALL REMAIN ACTIVE.
- ANCHOR TO EXISTING INERTIA BASE.
- ANCHOR BASE OF RECEIVER TO CONCRETE PAD, MIN 4 LOCATIONS FOR SEISMIC RESISTANCE.
- ANCHOR FRAME OF FILTER TO CONCRETE PAD.

PARTIAL 1ST FLOOR PLAN - MECHANICAL
SCALE: 1/8"=1'-0"



KEYPLAN



PERMIT RESUBMITTAL SET 10-14-21

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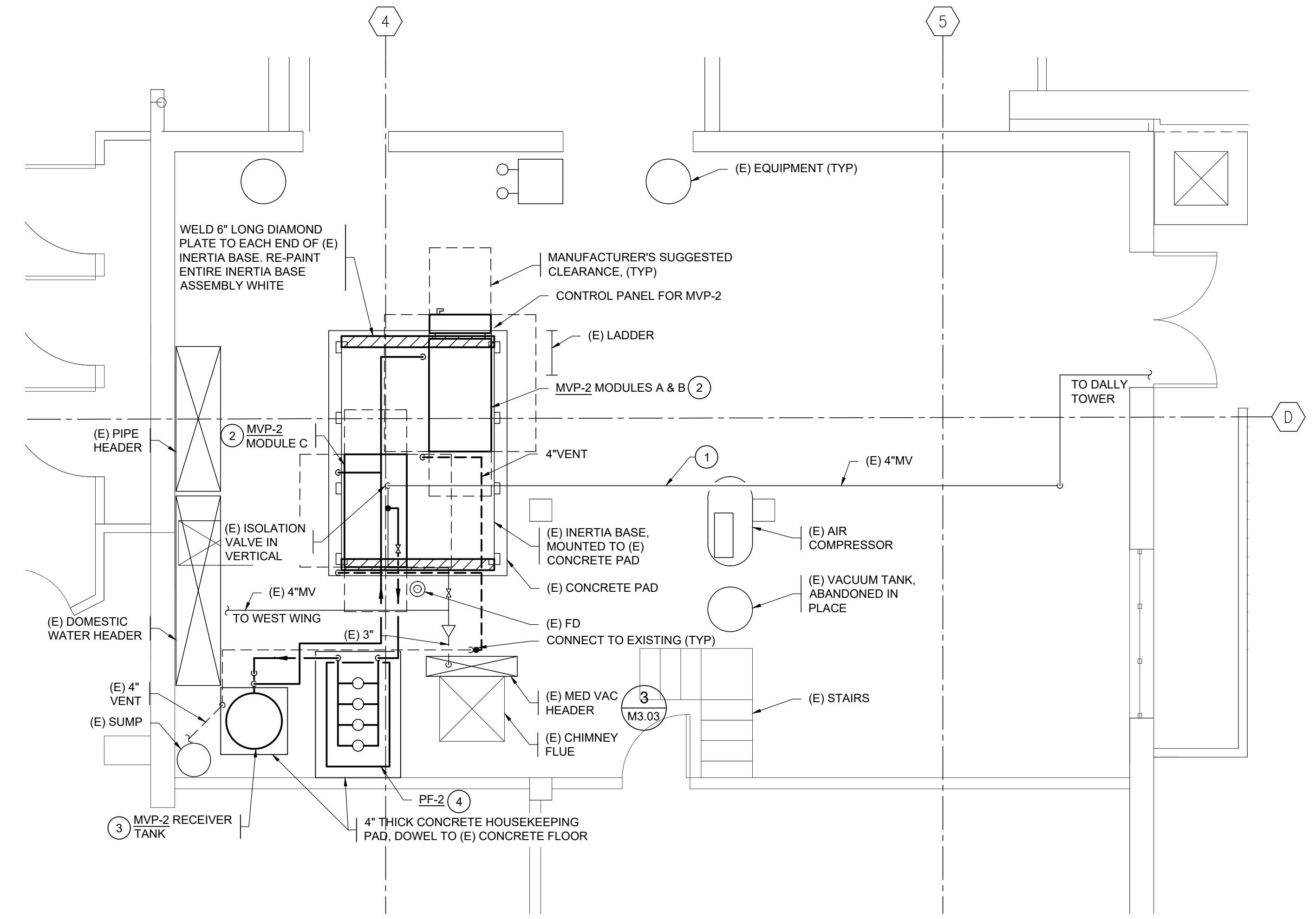
PARTIAL 1ST FLOOR PLAN -
MECHANICAL
SHEET TITLE: MECHANICAL
DRAWN: MB
DATE: 06.09.21
PROJECT NO. 21-050
CHECKED: MT
REVISIONS:

M3.01

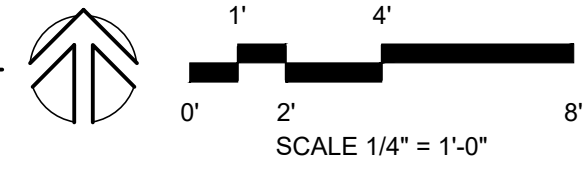
0' 1' 2'
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ENLARGED PLAN - MECHANICAL ROOM
SCALE: 1/4"=1'-0"



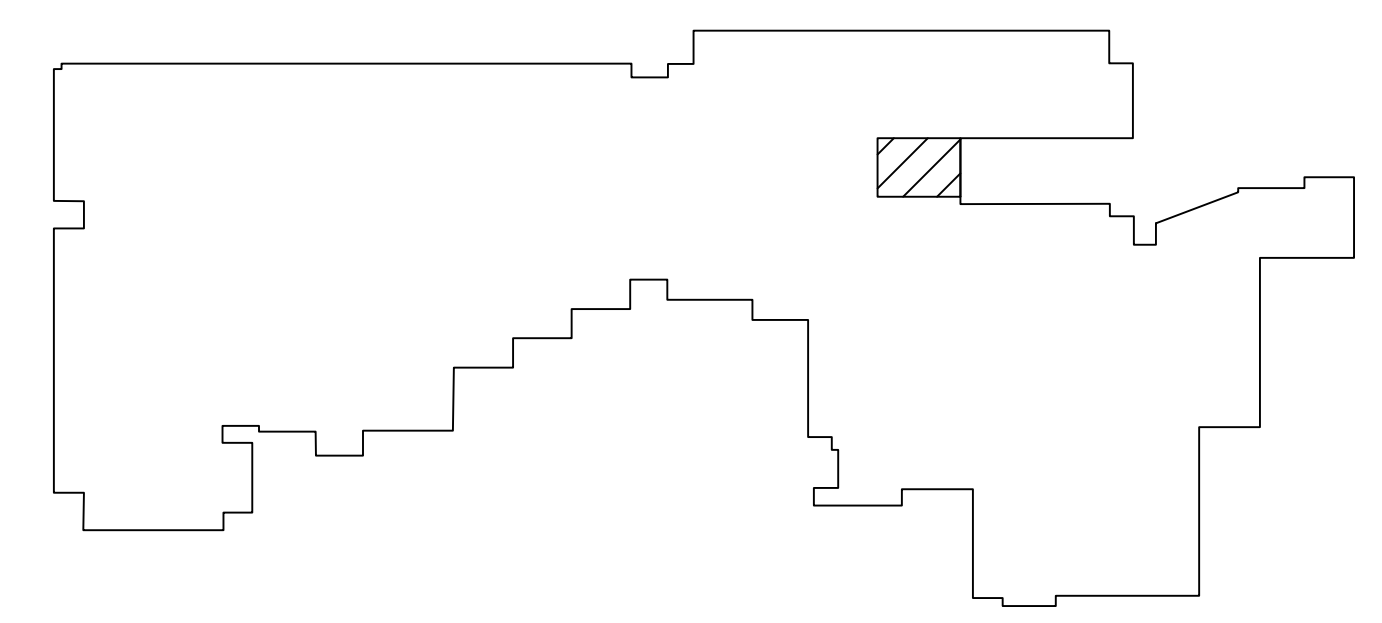
GENERAL NOTES:

1. SEE MECHANICAL GENERAL NOTES ON SHEET M0.01.
2. MEDICAL GAS SYSTEM IS A LEVEL 1 SYSTEM UNDER NFPA 99. PROVIDE ALL ACCESSORIES REQUIRED FOR COMPLIANCE.
3. MEDICAL GAS SYSTEM THIRD PARTY INSPECTOR: HARRY POMERANZ, MEDICAL GAS SERVICES, 425-894-5918.
4. PROVIDE PIPING IDENTIFICATION. SEE SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
5. LOW VOLTAGE AND POWER TO BE BY ELECTRICIAN. CONNECT PRESSURE SENSOR AND ALARMS FROM MVP-2 TO HOSPITAL MEDICAL GAS ALARM SYSTEM.
6. LOCATIONS OF MVP-2 RECEIVER AND PF-2 ARE PRELIMINARY. FIELD VERIFY LOCATION, THEN CONFIRM WITH HOSPITAL FACILITIES STAFF.
7. SEE SCHEMATIC ON SHEET M3.03 FOR PIPING ARRANGEMENT, EQUIPMENT CONNECTIONS, AND OTHER PROJECT REQUIREMENTS.
8. NOT ALL KEYED NOTES USED ON EACH SHEET.

KEYED NOTES:

- ① (E) 4-INCH INTERTIE TO DALLY TOWER MEDICAL VACUUM PUMP SYSTEM MVP-1 SHALL REMAIN ACTIVE.
- ② ANCHOR TO EXISTING INERTIA BASE.
- ③ ANCHOR BASE OF RECEIVER TO CONCRETE PAD, MIN 4 LOCATIONS FOR SEISMIC RESISTANCE.
- ④ ANCHOR FRAME OF FILTER TO CONCRETE PAD.

KEYPLAN



PERMIT RESUBMITTAL SET 10-14-21

A | B | C | D | E | F | G | H | J | K

HULTZ + BHU
engineers inc
1111 Fawcett Ave Suite 100
Tacoma, WA 98402
Phone: (253) 383-3257
Fax: (253) 383-3283
general@hultzbh.com
Job Number: 21-050

**MULTICARE GOOD SAMARITAN HOSPITAL
VACUUM PUMP REPLACEMENT**
401 15TH AVE SE, PUYALLUP, WA 98372

MultiCare

SIGNED
06-09-2021

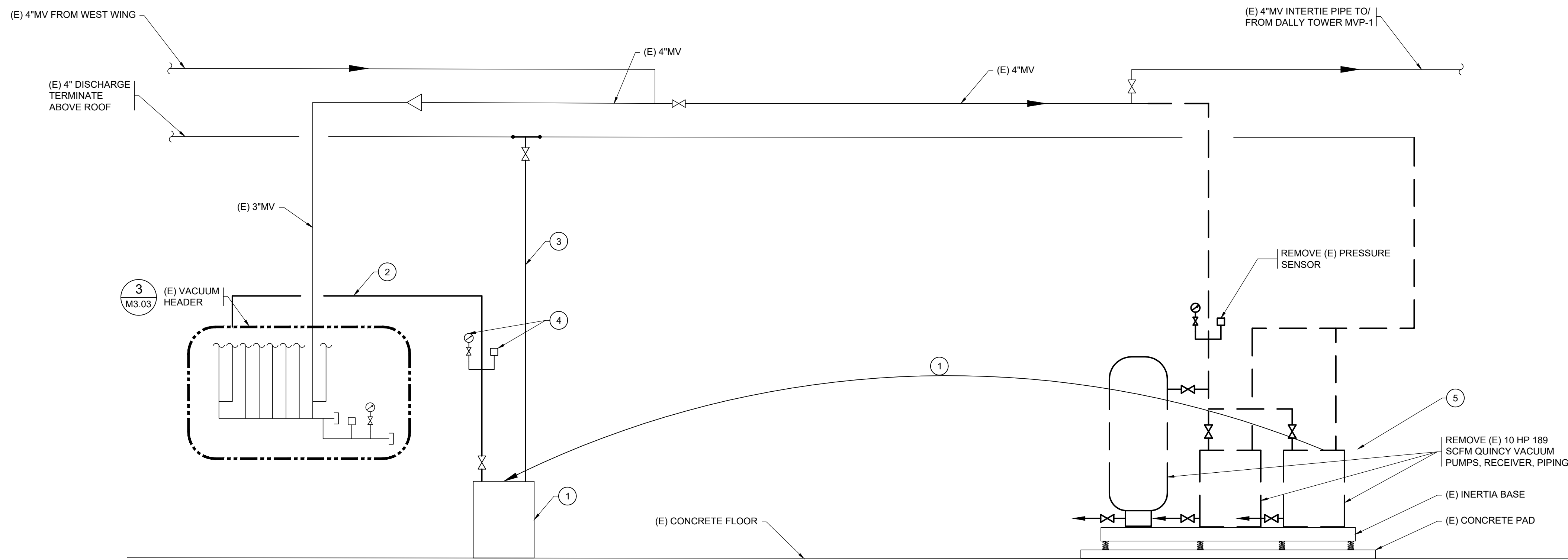
ENLARGED PLAN - MECHANICAL ROOM
SHEET TITLE: MECHANICAL ROOM
DRAWN: MB
CHECKED: MT
DATE: 06.09.21
PROJECT NO. 21-050
REVISIONS:

M3.02
SHEET SIZE IS TRUE SCALE WHEN ABOVE LINE MEASURES AS NOTED

DEMO/ TEMPORARY PHASING NOTES

SUMMARY: EXISTING DALLY TOWER MVP-1 AND ONE OF THE EXISTING 10 HP 196 SCFM QUINCY VACUUM PUMP MODULES SHALL BE OPERATIONAL TO ALLOW RELOCATION OF THE OTHER QUINCY MODULE. RELOCATION AND RECONNECTION SHALL BE MAX 1 DAY. THEN THE 2 MODULE PORTION OF NEW MVP-2 SHALL BE SET AND CONNECTED. SEE DETAIL 1 SHEET M1.02.

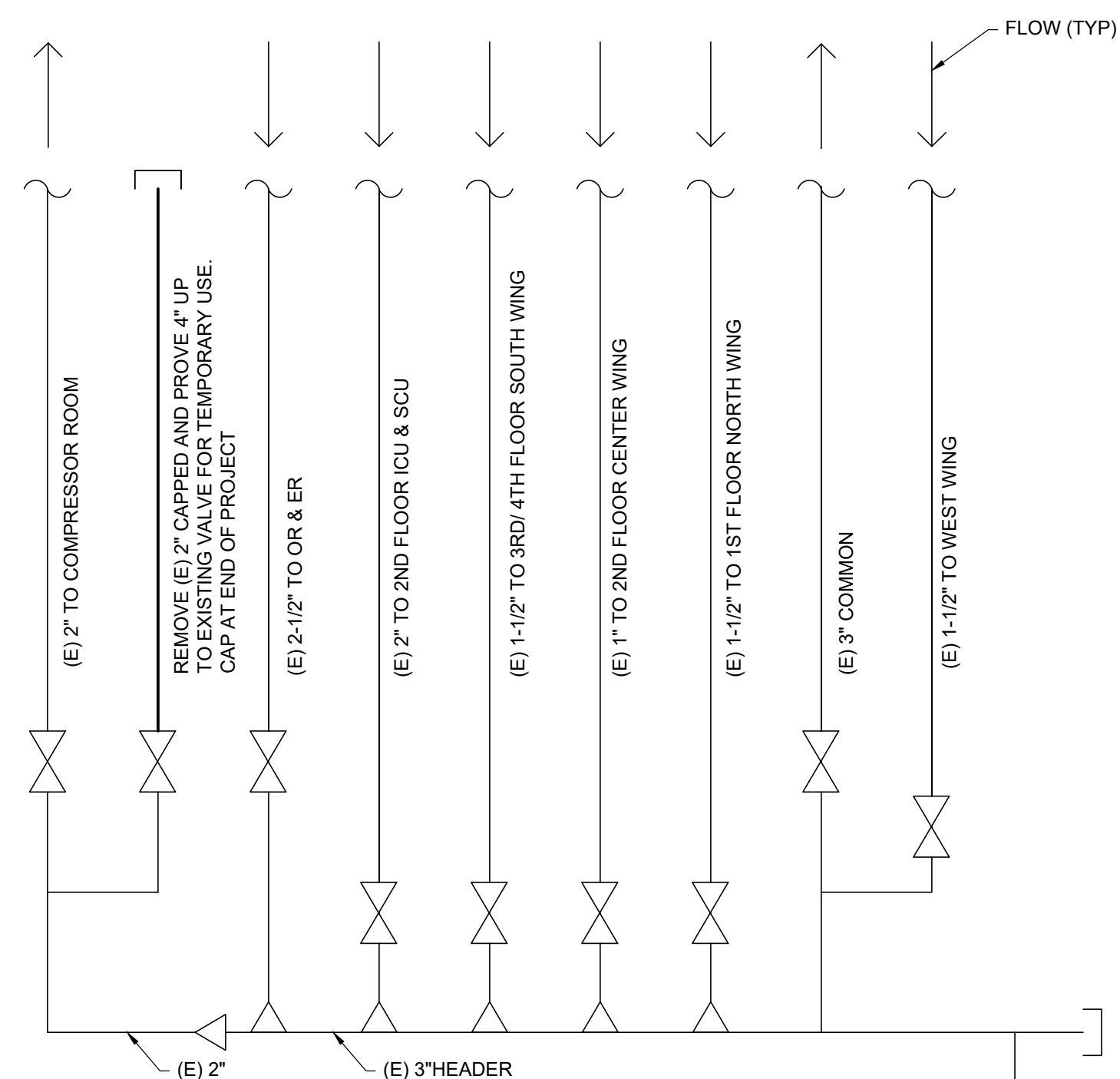
- 1 WITH 4" INTERTIE VALVES OPEN TO DALLY TOWER MVP-1, RELOCATE ONE OF THE TWO EXISTING 10 HP, 196 SCFM MODULES TO BE ADJACENT TO THE VACUUM HEADER. PROVIDE POWER TO UNIT.
- 2 PROVIDE TEMPORARY 4" MV TO (E) 2" CAPPED VACUUM LINE AT HEADER, SUCH THAT ALL NEW 4" IS CONNECTED TO THE EXISTING 2" VALVE.
- 3 PROVIDE TEMPORARY 3" DISCHARGE, TIE TO EXISTING MAIN.
- 4 PROVIDE LOCATION FOR PRESSURE GAUGE AND SENSOR. CONNECT TO MEDICAL GAS MONITORING SYSTEM.
- 5 INSTALL THE TWO MODULE MVP-2 (MODULE A AND B) AND CONNECT TO UTILITIES.



MED VAC SCHEMATIC AT MVP-2 - DEMO/TEMPORARY

NTS

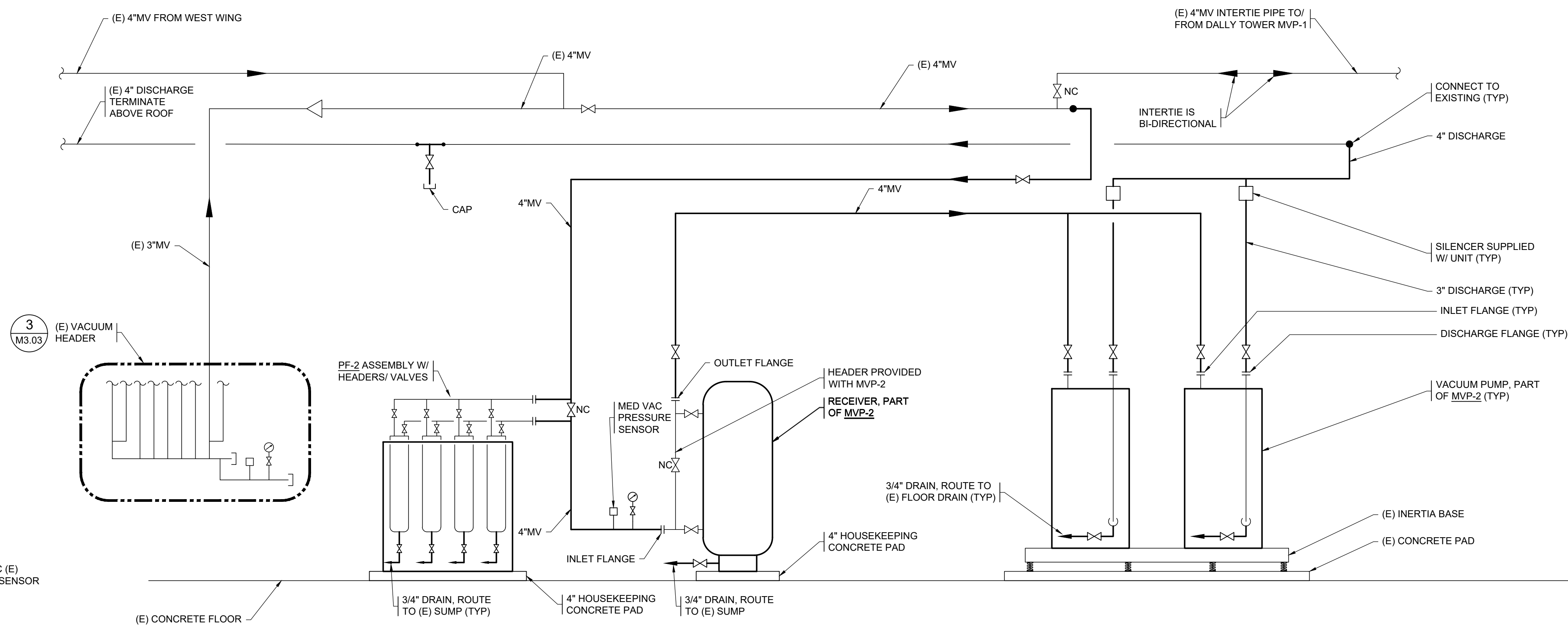
1
M3.03



VACUUM HEADER

NTS

3
M3.03



MED VAC SCHEMATIC AT MVP-2 - NEW

NTS

2
M3.03

PERMIT RESUBMITTAL SET 10-14-21

HULTZ BHU
engineers inc
1111 Fenwick Ave Suite 100
Tacoma, WA 98402
Phone: (253) 383-3257
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06-09-2021

MECHANICAL DETAILS

SHEET TITLE:
DRAWN: MB
DATE: 06.09.21
REVISIONS:

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PROJECT NO. 21-050

M3.03

0" 1" 2"
SHEET SIZE IS TRUE SCALE WHEN ABOVE LINE MEASURES AS NOTED