

**F**

PROJECT WILL REQUIRE TO OBTAIN A GENERAL PERMIT FROM MARYLAND DEPARTMENT OF ENVIRONMENT. THE VA WILL OBTAIN THE INITIAL PERMIT. CONTRACTOR WILL BE REQUIRED TO PAY FOR THIS PERMIT DIRECTLY TO MDE. ESTIMATED EXPENSE IS \$100. HOWEVER, CONTRACTOR SHALL CONFIRM THIS EXPENSE AND HAVE INCLUDED IN THE LUMP SUM PRICE. THE CONTRACTOR SHALL BE REQUIRED TO ACCEPT THE RESPONSIBILITY/ACCOUNTABILITY OF THIS PERMIT VIA GENERAL PERMIT TRANSFER # MDE/ WMA/ PER.079. THIS INCLUDES ALL INSPECTIONS, DOCUMENTATION ETC. AS REQUIRED BY THE MDE.

I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF FIFTH CLASS EROSION CONTROL DESIGNER OR EROSION CONTROL TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I/WE HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY APPROPRIATE INSPECTION AND ENFORCEMENT AUTHORITY OR THE STATE OF TEXAS AND DEPARTMENT OF THE ENVIRONMENT. I/WE HEREBY CERTIFY THAT STORMWATER MANAGEMENT FACILITIES WILL BE MAINTAINED IN ACCORDANCE WITH APPROVED PLANS.

RESPONSIBLE PERSONNEL CERTIFICATION NO.

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II INCLUDING SUPPLEMENTS, THE ENVIRONMENT ARTICLE SECTIONS 4-101 THROUGH 116 AND SECTIONS 4-201 AND 215, AND THE CODE OF MARYLAND REGULATIONS (COMAR) 26.17.01 AND COMAR 26.17.02 FOR EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT, RESPECTIVELY.

MD REGISTRATION NO. 32151  
☒ P.E., ☐ R.L.S., ☐ R.L.A. OR ☐ R.A. (CIRCLE ONE)

A map of Perryville, Maryland, and its surrounding areas. The Susquehanna River is on the left, with Garrett Island and the Anna Museum Lock House. Pulaski Hwy (Route 40) runs diagonally across the map. Key locations include John's Sushi House, Perryville Fire Company Station 6, Perryville Elementary School, and the Furnace Bay Golf Course. A red pin marks the location of the Perry Point VA Medical Center - VA Maryland Health Care System on the eastern shore of the river. Other landmarks include the PCS Home Team, Furnace Bay Golf Course, Charter Hall, and the Um Harford Memorial Hospital. The map also shows the location of the Friends-Concord Point Lighthouse and the River View Gallery.

File Path



**F**

[illegible]

**ARCH/ENGINEER OF RECORD**

**PRIME A/E:**

**VETERAN DESIGN & CONSTRUCTION INC.**  
5523 RESEARCH PARK DRIVE SUITE 110  
BALTIMORE, MARYLAND 21228  
443.543.5081

Office of  
Construction  
and Facilities  
Management

**VA** | U.S. Department  
of Veterans  
Affairs

Phase

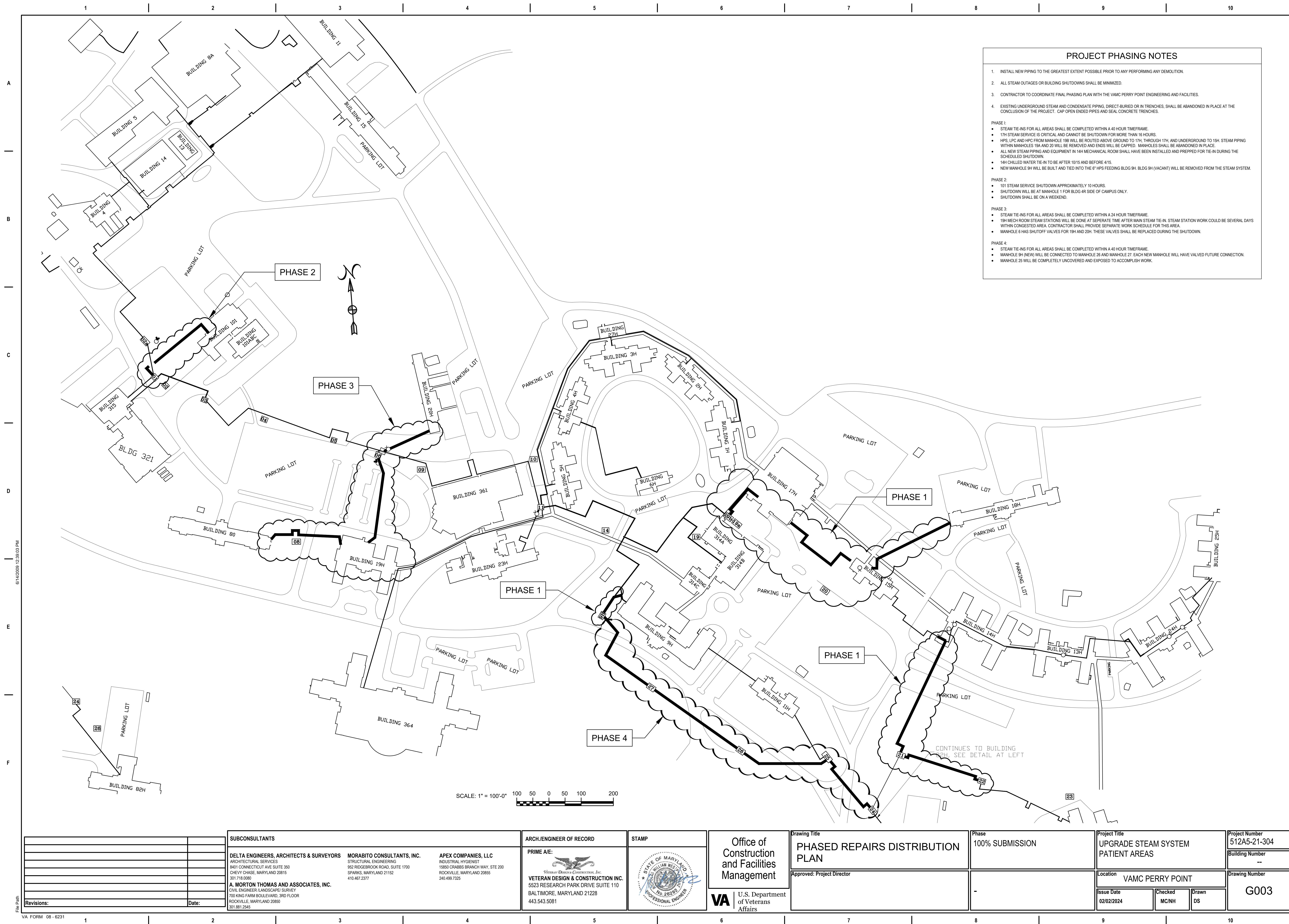
100% SUBMISSION

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Project Title UPGRADE STEAM SYSTEM PATIENT AREAS			Project Number 512A5-21-304	
			Building Number --	
Location VAMC PERRY POINT			Drawing Number  G002	
Issue Date 02/02/2024	Checked MC/INH	Drawn DS		

INDEX OF DRAWINGS			
SHEET	DISCIPLINE	TITLE	SHEET NO.
MPD104	MECHANICAL PIPING	FIRST FLOOR PLAN - BUILDING 18H - STEAM PIPING - DEMO	62
MPD105	MECHANICAL PIPING	BASEMENT PLAN - BUILDING 19H - STEAM PIPING - DEMO	63
MPD106	MECHANICAL PIPING	FIRST FLOOR PLAN - BUILDING 20H - STEAM PIPING - DEMO	64
MPD107	MECHANICAL PIPING	BASEMENT PLAN - BUILDING 80H - STEAM PIPING - DEMO	65
MPD108	MECHANICAL PIPING	BASEMENT PLAN - BUILDING 101 - STEAM PIPING - DEMO	66
MPD201	MECHANICAL PIPING	MANHOLE PART PLANS - MECHANICAL PIPING - DEMO	67
MPD202	MECHANICAL PIPING	MANHOLE PART PLANS - MECHANICAL PIPING - DEMO	68
MP101	MECHANICAL PIPING	BASEMENT PART PLANS - BUILDING 14H - MECHANICAL PIPING - NEW WORK	69
MP102	MECHANICAL PIPING	BASEMENT PLAN - BUILDING 15H - STEAM PIPING - NEW WORK	70
MP103	MECHANICAL PIPING	BASEMENT PLAN - BUILDING 17H - STEAM PIPING - NEW WORK	71
MP104	MECHANICAL PIPING	FIRST FLOOR PLAN - BUILDING 18H - STEAM PIPING - NEW WORK	72
MP105	MECHANICAL PIPING	BASEMENT PLAN - BUILDING 19H - STEAM PIPING - NEW WORK	73
MP106	MECHANICAL PIPING	FIRST FLOOR PLAN - BUILDING 20H - STEAM PIPING - NEW WORK	74
MP107	MECHANICAL PIPING	BASEMENT PLAN - BUILDING 80H - STEAM PIPING - NEW WORK	75
MP108	MECHANICAL PIPING	BASEMENT PLAN - BUILDING 101 - STEAM PIPING - NEW WORK	76
MP201	MECHANICAL PIPING	MANHOLE PART PLANS - MECHANICAL PIPING - NEW WORK	77
MP202	MECHANICAL PIPING	MANHOLE PART PLANS - MECHANICAL PIPING - NEW WORK	78
M401	MECHANICAL	BUILDING 14H PIPING SCHEMATICS - NEW WORK AND DEMO	79
M402	MECHANICAL	BUILDING 14H WATER PIPING SCHEMATICS - NEW WORK AND DEMO	80
M501	MECHANICAL	MECHANICAL DETAILS	81
M502	MECHANICAL	MECHANICAL DETAILS	82
M503	MECHANICAL	MECHANICAL DETAILS	83
M504	MECHANICAL	MECHANICAL DETAILS	84
M601	MECHANICAL	MECHANICAL SCHEDULES	85
M602	MECHANICAL	MECHANICAL SCHEDULES	86
P001	PLUMBING	PLUMBING SYMBOLS AND ABBREVIATIONS	87
PD101	PLUMBING	BASEMENT PLAN - BUILDING 14H - PLUMBING - DEMO	88
P101	PLUMBING	BASEMENT PLAN - BUILDING 14H - PLUMBING - NEW WORK	89
P501	PLUMBING	PLUMBING SCHEMATICS, DETAILS AND SCHEDULES	90
FS001	FIRE PROTECTION	FIRE SUPPRESSION PROJECT NOTES, SYMBOLS AND ABBREVIATIONS	91
FSD101	FIRE PROTECTION	BASEMENT PLAN - BUILDING 14H - FIRE SUPPRESSION PLAN - DEMO	92
FS101	FIRE PROTECTION	BASEMENT PLAN - BUILDING 14H - FIRE SUPPRESSION PLAN - NEW WORK	93
FS501	FIRE PROTECTION	FIRE SUPPRESSION DETAILS	94
FA001	FIRE PROTECTION	FIRE ALARM PROJECT NOTES, SYMBOLS AND ABBREVIATIONS	95
FA101	FIRE PROTECTION	BASEMENT PLAN - BUILDING 14H - FIRE ALARM PLAN - DEMO	96
FA501	FIRE PROTECTION	BASEMENT PLAN - BUILDING 14H - FIRE ALARM PLAN - NEW WORK	97
ES001	ELECTRICAL	ELECTRICAL SYMBOLS AND ABBREVIATIONS	98
ES002	ELECTRICAL	SITE PLAN - ELECTRICAL	99
ED101	ELECTRICAL	BASEMENT PLAN - BUILDING 14H - ELECTRICAL - DEMO	100
ED102	ELECTRICAL	BASEMENT PLAN - BUILDING 15H - ELECTRICAL - DEMO	101
ED103	ELECTRICAL	BASEMENT PLAN - BUILDING 17H - ELECTRICAL - DEMO	102
ED104	ELECTRICAL	FIRST FLOOR PLAN - BUILDING 18H - ELECTRICAL - DEMO	103
ED105	ELECTRICAL	BASEMENT PLAN - BUILDING 19H - ELECTRICAL - DEMO	104
ED106	ELECTRICAL	FIRST FLOOR PLAN - BUILDING 20H - ELECTRICAL - DEMO	105
ED108	ELECTRICAL	BASEMENT PLAN - BUILDING 101 - ELECTRICAL - DEMO	106
ED201	ELECTRICAL	MANHOLE PART PLANS - ELECTRICAL - DEMO	107
ED202	ELECTRICAL	MANHOLE PART PLANS - ELECTRICAL - DEMO	108
ES101a	ELECTRICAL	BASEMENT PLAN - BUILDING 14H - ELECTRICAL - NEW WORK	109
ES101b	ELECTRICAL	BASEMENT PLAN - BUILDING 14H - ELECTRICAL - NEW WORK	110
ES102	ELECTRICAL	BASEMENT PLAN - BUILDING 15H - ELECTRICAL - NEW WORK	111
ES103	ELECTRICAL	BASEMENT PLAN - BUILDING 17H - ELECTRICAL - NEW WORK	112
ES104	ELECTRICAL	FIRST FLOOR PLAN - BUILDING 18H - ELECTRICAL - NEW WORK	113
ES105	ELECTRICAL	BASEMENT PLAN - BUILDING 19H - ELECTRICAL - NEW WORK	114
ES106	ELECTRICAL	FIRST FLOOR PLAN - BUILDING 20H - ELECTRICAL - NEW WORK	115
ES108	ELECTRICAL	BASEMENT PLAN - BUILDING 101 - ELECTRICAL - NEW WORK	116
ES201	ELECTRICAL	MANHOLE PART PLANS - ELECTRICAL - NEW WORK	117
ES202	ELECTRICAL	MANHOLE PART PLANS - ELECTRICAL - NEW WORK	118
ES203	ELECTRICAL	SCHEDULE, RISER & FLOOR PLAN - BUILDING 11 - ELECTRICAL - NEW WORK	119
E601	ELECTRICAL	ELECTRICAL SCHEDULES	120
E602	ELECTRICAL	ELECTRICAL SCHEDULES	121













<div>1</div> <div>G005</div> <div>RENOVATION BASEMENT PLAN</div> <div>SCALE: 1/8" = 1'-0"</div>		<div>SUBCONSULTANTS</div> <div><div>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</div><div>ARCHITECTURAL SERVICES</div><div>8401 CONNECTICUT AVE SUITE 350</div><div>CHEYNY CHASE, MARYLAND 20815</div><div>301.718.0090</div></div> <div><div>MORABITO CONSULTANTS, INC.</div><div>STRUCTURAL ENGINEERING</div><div>952 RIDGEBROOK ROAD, SUITE 1700</div><div>SPARKS, MARYLAND 21152</div><div>410.467.2377</div></div> <div><div>APEX COMPANIES, LLC</div><div>INDUSTRIAL HYGIENIST</div><div>15850 CRABBS BRANCH WAY, STE 200</div><div>ROCKVILLE, MARYLAND 20855</div><div>240.499.7325</div></div>
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ARCH./ENGINEER OF RECORD

PRIME A/E:

VETERAN DESIGN & CONSTRUCTION, INC.

5523 RESEARCH PARK DRIVE SUITE 110

BALTIMORE, MARYLAND 21228

443.543.5081

STAMP

OFFICE OF CONSTRUCTION AND FACILITIES MANAGEMENT

U.S. Department of Veterans Affairs

Drawing Title

BUILDING 14H-LIFE SAFETY PLAN AND CODE SUMMARY CHARTS

Approved:

Phase

100% SUBMISSION

-

Project Title

UPGRADE STEAM SYSTEMS PATIENT AREAS

Location

VAMC PERRY POINT

Issue Date

02/02/2024

Checked

EJL

Drawn

LA

Project Number

512A5-21-304

Building Number

Drawing Number

G005



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B

C

D

E

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A

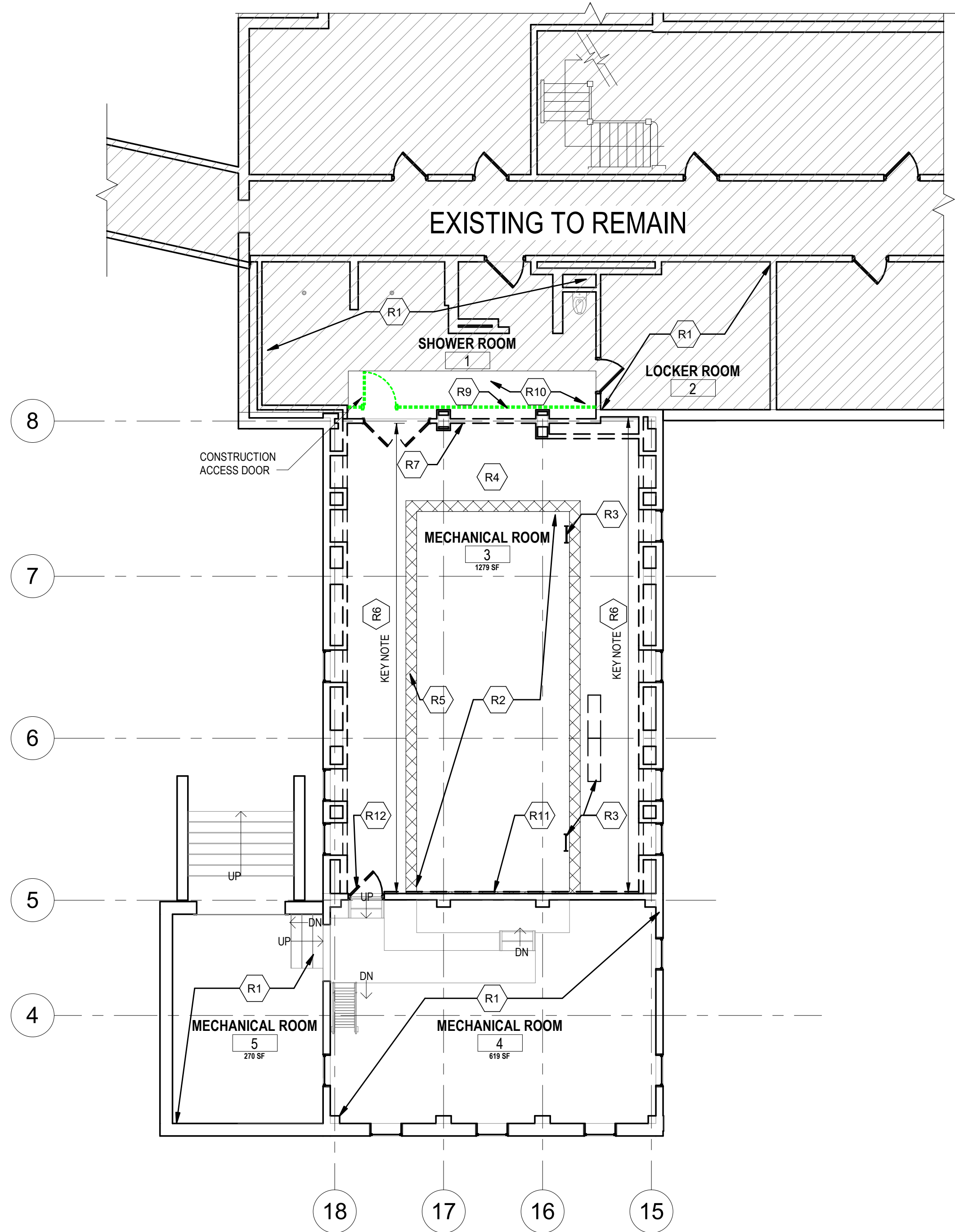
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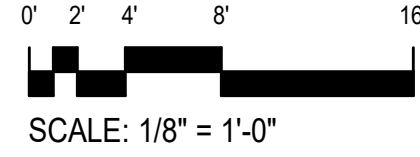
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E

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1 BASEMENT REMOVAL PLAN  
AD101 SCALE: 1/8" = 1'-0"



**GENERAL REMOVAL NOTES**

A. ITEMS DESIGNATED ON PLAN BY DASHED LINE ARE EXISTING ELEMENTS TO BE REMOVED. REFER TO OTHER TRADE DRAWINGS FOR OTHER REMOVALS, INCLUDING MODIFICATIONS THAT MAY EXTEND BEYOND AREAS SHOWN.

B. FOR DURATION OF PROJECT, EXISTING CONSTRUCTION AND/OR EQUIPMENT TO REMAIN FROM DAMAGE OR CONSTRUCTION ACTIVITIES, WHERE CONSTRUCTION ACTIVITIES RESULT IN DAMAGE TO EXISTING CONSTRUCTION TO BE RETAINED. REPLACE/REPAIR EXISTING CONSTRUCTION TO RETURN IT TO ITS ORIGINAL CONDITION. WHERE REMOVAL OF EXISTING CONSTRUCTION, PIPING, DUCTWORK, AND OTHER ITEMS CREATES OPENINGS IN WALLS, FLOORS OR CEILINGS, PATCH OPENINGS IMMEDIATELY WITH SAME MATERIALS AS ADJACENT CONSTRUCTION AND/OR TO MAINTAIN REQUIRED FIRE RATING.

C. PROVIDE FULL HEIGHT TEMPORARY CONSTRUCTION BARRIERS WHERE REQUIRED TO PREVENT DUST POLLUTION OF SURROUNDING OCCUPIED AREAS. SEAL AIR-TIGHT. PARTITIONS MUST BE INSTALLED IN ACCORDANCE WITH FIRE PROTECTION AND EGRESS REQUIREMENTS. MAINTAIN MEANS OF EGRESS ACCESS TO EXITS DURING CONSTRUCTION.

D. TAKE PROPER MEASURES TO PREVENT DUST MIGRATION TO AREAS OUTSIDE THE CONSTRUCTION AREA BY CLOSING ALL OPENINGS IN DUCTS, WALLS, FLOORS AND CEILINGS. PROVIDE CONTINUOUS EXHAUST TO EXTERIOR TO MAINTAIN NEGATIVE PRESSURE IN CONSTRUCTION AREA.

E. COORDINATE WITH OWNER FOR EQUIPMENT TO BE SALVAGED AND RETURNED TO OWNER. THE OWNER WILL RETAIN ALL SALVAGE THAT IS OF VALUE AS DESIGNATED BY THE USER OR BUILDING ENGINEER. REMOVE FROM THE BUILDING AND DISPOSE OF IN A LAWFUL MANNER ALL DEBRIS AND/OR ITEMS NOT RETAINED BY OWNER.

F. INSTALL ADHESIVE MATS INSIDE AND OUTSIDE EACH ACCESS DOOR TO CONSTRUCTION AREA.

G. COORDINATE WITH OTHER TRADE DRAWINGS FOR REMOVAL WORK, AS REQUIRED.

H. REFER TO HAZARDOUS MATERIALS REPORT.

I. ESTIMATED QUANTITY OF LEAD BASED PAINT REMOVAL IS 3500 SF(325 SM)

RM	REMOVAL KEY NOTES
R1	EXISTING TO REMAIN
R2	PREP EXISTING POOL AREA TO BE INFILLED AND REPURPOSED FOR NEW MECHANICAL ROOM SPACE.
R3	REMOVE ALL POOL RELATED EQUIPMENT INCLUDING FIXED BENCHES AND LADDERS. PATCH AND REPAIR AS NEEDED.
R4	REMOVE CERAMIC FLOOR TILE IN THIS ROOM. REPAIR & CLEAN CONCRETE SLAB FOR NEW MECHANICAL ROOM.
R5	REMOVE CERAMIC TILE AND POOL BASIN PERIMETER TILE TRIM. PATCH, REPAIR & CLEAN CONCRETE SLAB FOR NEW MECHANICAL ROOM.
R6	REMOVE EXISTING PARTITION COMPLETELY SHOWN DASHED. REMOVE DEBRIS FROM BEHIND PARTITION.
R7	REMOVE EXISTING PARTITION, DOOR, & FRAME SHOWN DASHED IN THIS AREA.
R8	REMOVE EXISTING PLASTER ON METAL LATH CEILING. REMOVE CEILING SUSPENSION ASSEMBLY REMOVE LIGHT FIXTURES & CEILING DEVICES.
R9	PROVIDE FULL HEIGHT TEMPORARY CONSTRUCTION BARRIER, 1 HOUR RATED. PROVIDE CONSTRUCTION ACCESS AS NECESSARY.
R10	REMOVE CEILING AS NECESSARY TO INSTALL NEW WORK. RETAIN FOR RE-INSTALLATION.
R11	REMOVE EXISTING WALL TILE FINISH FROM CMU SUBSTRATE. PREPARE SURFACE TO RECEIVE LAMINATED GYPSUM BOARD
R12	REMOVE EXISTING DOOR & FRAME CMU WALL.

**ICRA NOTES**

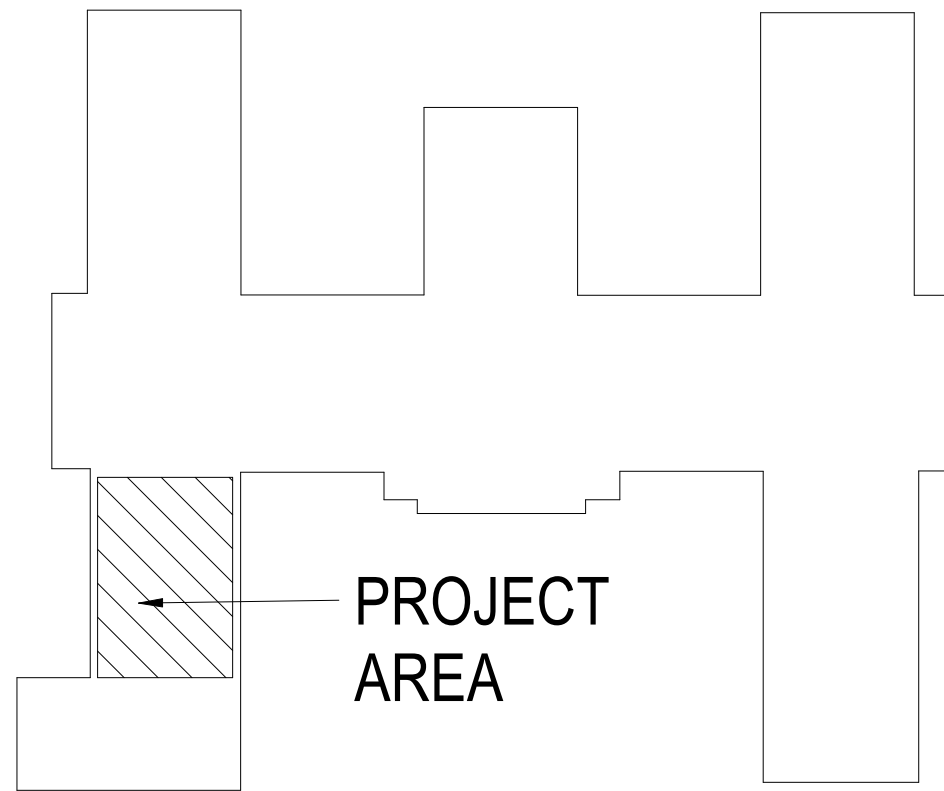
PROJECT ACTIVITY: TYPE C  
PATIENT RISK GROUP: LOW RISK (MECHANICAL SPACES)  
PATIENT RISK GROUP: CLASS III / IV

DESCRIPTION OF REQUIRED INFECTION PREVENTION PRECAUTIONS BY CLASS

**CLASS: CLASS III**

- DURING CONSTRUCTION**
- OBTAIN** INFECTION CONTROL PERMIT BEFORE CONSTRUCTION BEGINS.
  - ISOLATE** HVAC SYSTEM IN AREA WHERE WORK IS BEING DONE TO PREVENT CONTAMINATION OF THE DUCT SYSTEM.
  - COMPLETE** ALL CRITICAL BARRIERS OR **IMPLEMENT** CONTROL CUBE METHOD BEFORE CONSTRUCTION BEGINS.
  - MAINTAIN** NEGATIVE AIR PRESSURE WITHIN WORK SITE UTILIZING HEPA EQUIPPED AIR FILTRATION UNITS.
  - REMOVE** OR **ISOLATE** HVAC SYSTEMS IN AREA WHERE WORK IS BEING PERFORMED.
  - DO NOT REMOVE** BARRIERS FROM WORK SITE UNTIL COMPLETE AND PROJECT IS THOROUGHLY CLEANED BY EVMS.
  - VACUUM** WORK WITH HEPA FILTERED VACUUM.
  - WET MOP** WITH DISINFECTANT.
  - REMOVE** BARRIER MATERIAL CAREFULLY TO MINIMIZE SPREADING OF DUST AND DEBRIS ASSOCIATED WITH CONSTRUCTION.
  - CONTAIN** CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
  - COVER** TRANSPORT RECEPTACLES OR CART AND TAPE COVERING IN PLACE.

- UPON COMPLETION OF CONSTRUCTION**
- DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL COMPLETED PROJECT IS INSPECTED BY THE OWNER'S SAFETY DEPARTMENT AND INFECTION PREVENTION COORDINATOR AND THOROUGHLY CLEANED BY (EMS) ENVIRONMENTAL MANAGEMENT SERVICES.
  - REMOVE BARRIER MATERIALS CAREFULLY TO MINIMIZE SPREADING OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION.
  - VACUUM WORK AREA WITH HEPA FILTERED VACUUMS.
  - WET MOP AREA WITH DISINFECTANT.
  - REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED

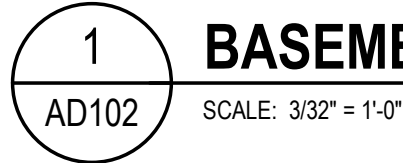


BUILDING 14H-KEY PLAN  
SCALE: N.T.S.



<b>SUBCONSULTANTS</b>				<b>ARCH./ENGINEER OF RECORD</b>		<b>STAMP</b>		<b>Office of Construction and Facilities Management</b>		<b>Drawing Title</b> BUILDING 14H-REMOVAL PLANS		<b>Phase</b> 100% SUBMISSION		<b>Project Title</b> UPGRADE STEAM SYSTEMS PATIENT AREAS		<b>Project Number</b> 512A5-21-304	
<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0090				<b>MORABITO CONSULTANTS, INC.</b> STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377		<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325		<b>PRIME A/E:</b>  <b>VETERAN DESIGN &amp; CONSTRUCTION, INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		<b>Approved:</b>		<b>Issue Date</b> 02/02/2024		<b>Checked</b> EJL		<b>Drawn</b> LA	
<b>A. MORTON THOMAS AND ASSOCIATES, INC.</b> CIVIL ENGINEER /LANDSCAPE/ SURVEY 800 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545								<b>U.S. Department of Veterans Affairs</b>				<b>-</b>		<b>Location</b> VAMC PERRY POINT		<b>Building Number</b> 14H	
<b>Revisions:</b>				<b>Date:</b>												<b>Drawing Number</b> AD101	





SCALE: 3/32" = 1'-0"

SCALE: 3/32" = 1'-0"

**CRAWL SPACE**

A	ITEMS DESIGNATED ON PLAN BY DASHED LINE ARE EXISTING ELEMENTS TO BE REMOVED. REFER TO OTHER TRADE DRAWINGS FOR OTHER REMOVALS. INCLUDE MODIFICATIONS THAT MAY EXTEND BEYOND AREAS SHOWN.
B	REMOVE EXISTING CONSTRUCTION TO BE REMOVED TO REVEAL DAMAGE OR CONSTRUCTION ACTIVITIES. WHERE CONSTRUCTION ACTIVITIES RESULT IN DAMAGE TO EXISTING CONSTRUCTION TO BE RETAINED.
C	REPLACE/REPAIR EXISTING CONSTRUCTION TO RETURN IT TO ITS ORIGINAL CONDITION. WHERE REMOVAL OF EXISTING CONSTRUCTION REVEALS DAMAGE TO EXISTING CONSTRUCTION, REPAIR OR REPLACE TO MATCH EXISTING CONSTRUCTION. PROVIDE IMMEDIATELY WITH SAME MATERIALS AS ADJACENT CONSTRUCTION AND/OR TO MAINTAIN REQUIRED FIRE RATING.
D	OPEN FULL HEIGHT TEMPORARY CONSTRUCTION BARRIERS WHERE REQUIRED TO PREVENT DUST POLLUTION OF ADJACENT AREAS. PROVIDE FULL HEIGHT AIR LOCKS TO PREVENT DUST FROM ADJACENT AREAS. PROVIDE FIRE PROTECTION AND EGRESS REQUIREMENTS. MAINTAIN MEANS OF EGRESS ACCESS TO EXITS DURING CONSTRUCTION.
E	TAKE PROPER MEASURES TO PREVENT DUST MIGRATION TO AREAS OUTSIDE THE CONSTRUCTION AREA BY CLOSING ALL EXITS, WINDOWS, DOORS AND CEILINGS. PROVIDE CONTINUOUS EXHAUST TO EXTERIOR TO MAINTAIN NEGATIVE PRESSURE IN CONSTRUCTION AREA.
F	COORDINATE WITH OWNER FOR EQUIPMENT TO BE SALVAGED AND RETURNED TO OWNER. THE OWNER WILL RETAIN ALL RIGHTS IN THE EQUIPMENT. REMOVE EXISTING EQUIPMENT FROM THE BUILDING AND DISPOSE OF IT IN A LAWFUL MANNER. ALL DEBRIS AND/OR ITEMS NOT RETAINED BY OWNER.
G	INSTALL ADHESIVE MATS INSIDE AND OUTSIDE EACH ACCESS DOOR TO CONSTRUCTION AREA.
H	ESTIMATE QUANTITY WITH OTHER TRADE DRAWINGS FOR REMOVAL OF SMOKE GAS, AS REQUIRED.
I	REPORT TO HAZARDOUS MATERIALS REPORT.
J	ESTIMATED QUANTITY OF LEAD BASED PAINT REMOVAL IS 3500 SF/325 MM



R13	REFER TO MECHANICAL PLUMBING REMOVAL AND RENOVATION PLANS FOR WORK
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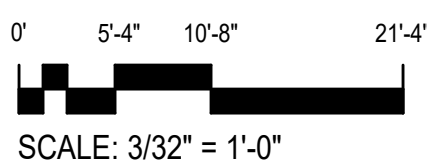
PROJECT ACTIVITY: TYPE C  
PATIENT RISK GROUP: LOW RISK (MECHANICAL SPACES)  
PATIENT RISK GROUP: CLASS II

DESCRIPTION OF REQUIRED INFECTION PREVENTION PRECAUTIONS BY CLASS

### DURING CONSTRUCTION

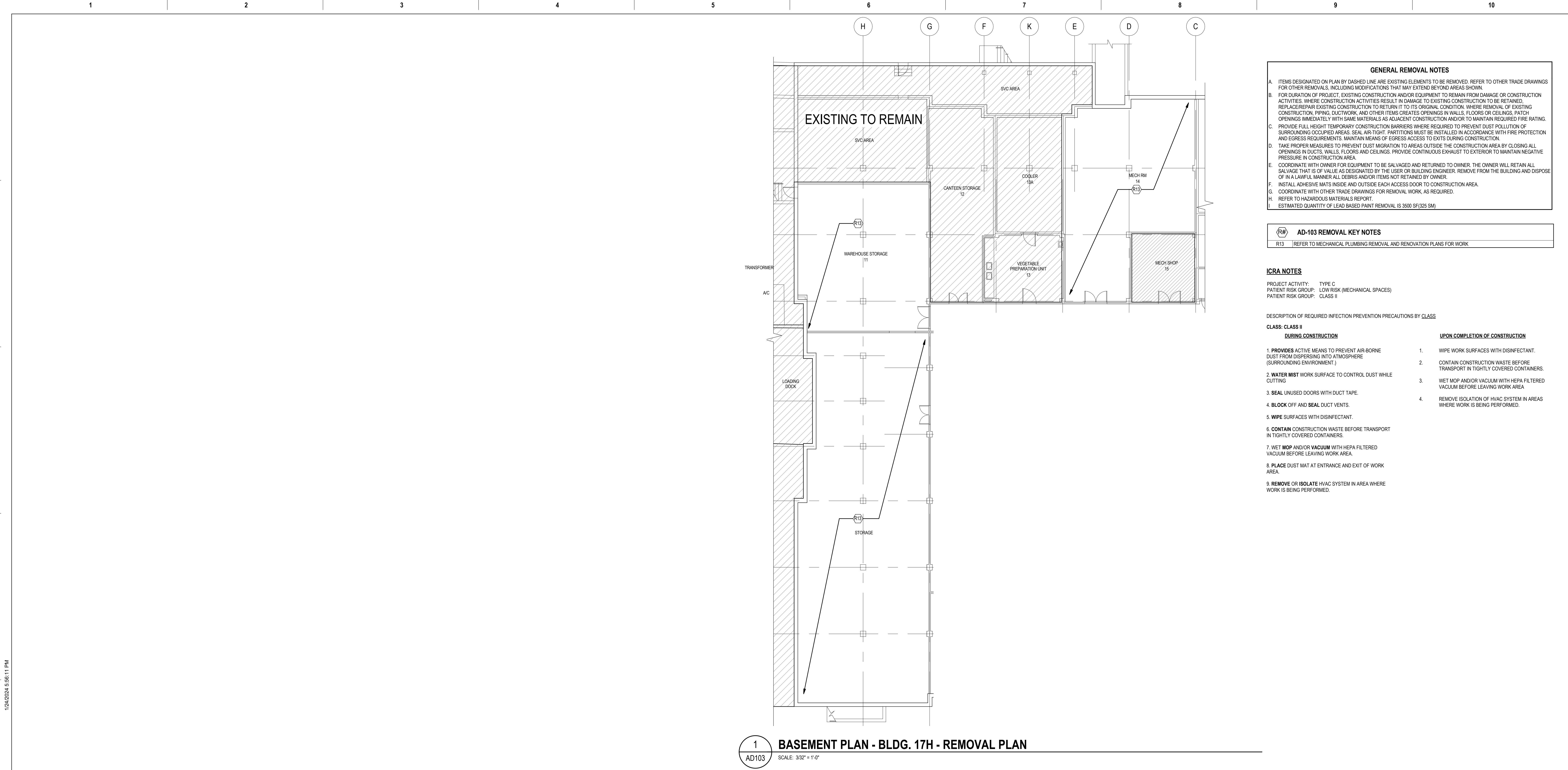
1. **PROVIDES ACTIVE MEANS TO PREVENT AIR-BORNE DUST FROM DISPERSING INTO ATMOSPHERE (SURROUNDING ENVIRONMENT.)**
2. **WATER MIST WORK SURFACE TO CONTROL DUST WHILE CUTTING**
3. **SEAL UNUSED DOORS WITH DUCT TAPE.**
4. **BLOCK OFF AND SEAL DUCT VENTS.**
5. **WIPE SURFACES WITH DISINFECTANT.**
6. **CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.**

1. WIPE WORK SURFACES WITH DISINFECTANT.
2. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
3. WET MOP AND/OR VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA
4. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.



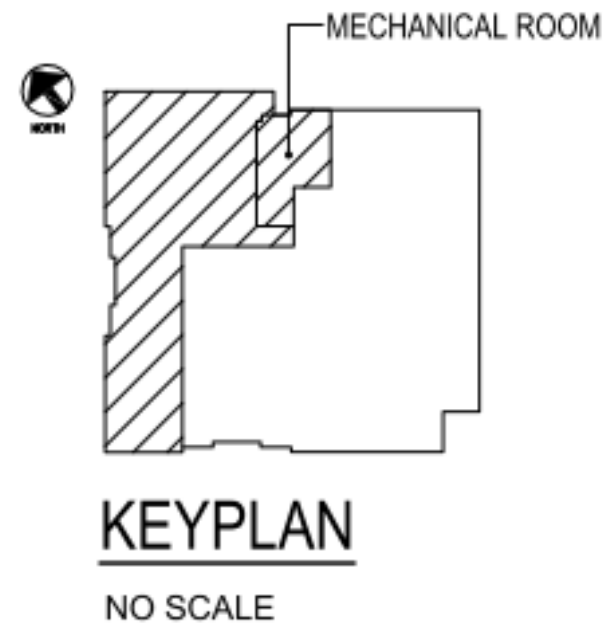
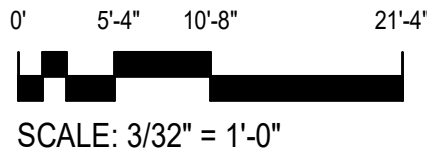
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SUBCONSULTANTS		ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management		Drawing Title	Phase	Project Title		Project Number	
DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0090		MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		BUILDING 17H REMOVAL PLAN	100% SUBMISSION	UPGRADE STEAM SYSTEMS PATIENT AREAS		512A5-21-304	
A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER /LANDSCAPE/ SURVEY 800 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545				U.S. Department of Veterans Affairs		Approved:	-	Location		Drawing Number	
Revisions:		Date:						VAMC PERRY POINT		AD103	
								Issue Date		Checked	
								02/02/2024		EJL	
								Drawn		EJL	





A.	ITEMS DESIGNATED ON PLAN BY DASHED LINE ARE EXISTING ELEMENTS TO BE REMOVED. REFER TO OTHER TRADE DRAWINGS FOR OTHER REMOVALS, INCLUDING MODIFICATIONS THAT MAY EXTEND BEYOND AREAS SHOWN.
B.	REPAIR OR REPLACE EXISTING CONSTRUCTION TO RETURN TO ORIGINAL CONDITION OR TO REPAIR FROM DAMAGE OR CONSTRUCTION ACTIVITIES WHERE CONSTRUCTION ACTIVITIES RESULT IN DAMAGE TO EXISTING CONSTRUCTION TO BE RETAINED.
C.	REPAIR/REPLACE EXISTING CONSTRUCTION TO RETURN TO ITS ORIGINAL CONDITION. WHERE REMOVAL OF EXISTING CONSTRUCTION IS REQUIRED, REPAIR OR REPLACE WITH EQUIVALENT MATERIALS AND FINISHES WITHIN 14 DAYS OF THE OPENINGS IMMEDIATELY WITH SAME MATERIALS AS ADJACENT CONSTRUCTION AND/OR TO MAINTAIN REQUIRED FIRE RATING. PROVIDE FULL HEIGHT TEMPORARY CONSTRUCTION BARRIERS WHERE REQUIRED TO PREVENT DUST POLLUTION OF ADJACENT AREAS AND/OR TRAFFIC. PROVIDE FULL HEIGHT TEMPORARY BARRIERS WITH SAFETY FINISHES WITH FIRE PROTECTION AND EGRESS REQUIREMENTS. MAINTAIN MEANS OF EGRESS ACCESS TO EXITS DURING CONSTRUCTION.
D.	TAKE PREPARE MEASURES TO PREVENT DUST MIGRATION TO AREAS OUTSIDE THE CONSTRUCTION AREA BY CLOSING ALL ADJACENT AREAS AND/OR TRAFFIC. PROVIDE CONTINUOUS DUST EXHAUST TO EXTERIOR TO MAINTAIN NEGATIVE PRESSURE IN CONSTRUCTION AREA.
E.	COORDINATE WITH OWNER FOR EQUIPMENT TO BE SALVAGED AND RETURNED TO OWNER. THE OWNER WILL RETAIN ALL RIGHTS OF USE OF ANY OF THE EQUIPMENT TO BE SALVAGED AND RETURNED TO OWNER. REMOVE FROM THE BUILDING AND DISPOSE OF IN A LAWFUL MANNER ALL DEBRIS AND/OR ITEMS NOT RETAINED BY OWNER.
F.	INSTALL ADHESIVE MATS INSIDE AND OUTSIDE EACH ACCESS DOOR TO CONSTRUCTION AREA.
G.	COORDINATE WITH OTHER TRADE DRAWINGS FOR REMOVAL WORK, AS REQUIRED.
H.	REFER TO HAZARDOUS MATERIALS REPORT.
I.	ESTIMATED QUANTITY OF LEAD BASED PAINT REMOVALS (350 SQ FT/323 SQ M)



PROJECT ACTIVITY: TYPE C  
PATIENT RISK GROUP: LOW RISK (MECHANICAL SPACES)  
PATIENT RISK GROUP: CLASS II

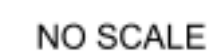
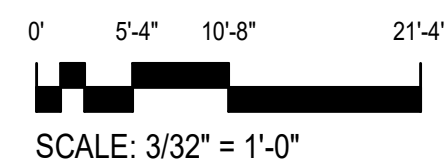
DESCRIPTION OF REQUIRED INFECTION PREVENTION PRECAUTIONS BY CLASS

DURING CONSTRUCTION

1. **PROVIDES** ACTIVE MEANS TO PREVENT AIR-BORNE DUST FROM DISPERSING INTO ATMOSPHERE (SURROUNDING ENVIRONMENT.)
2. **WATER MIST** WORK SURFACE TO CONTROL DUST WHILE CUTTING
3. **SEAL** UNUSED DOORS WITH DUCT TAPE.
4. **BLOCK** OFF AND **SEAL** DUCT VENTS.
5. **WIPE** SURFACES WITH DISINFECTANT.
6. **CONTAIN** CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
7. **WET MOP** AND/OR **VACUUM** WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA.
8. **PLACE** DUST MAT AT ENTRANCE AND EXIT OF WORK AREA.
9. **REMOVE OR ISOLATE** HVAC SYSTEM IN AREA WHERE WORK IS BEING PERFORMED.

UPON COMPLETION OF CONSTRUCTION

1. WIPE WORK SURFACES WITH DISINFECTANT.
2. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
3. WET MOP AND/OR VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA
4. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.

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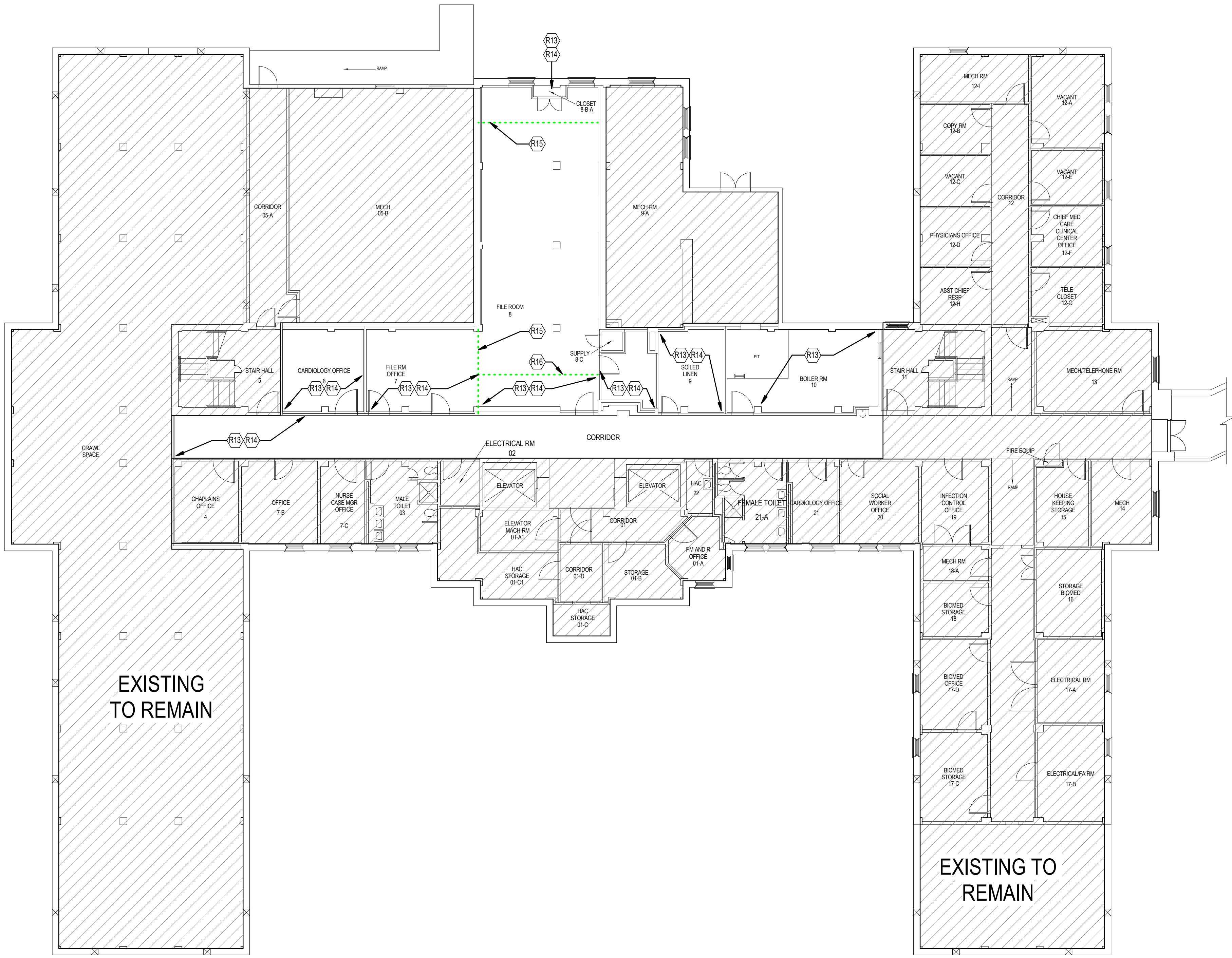
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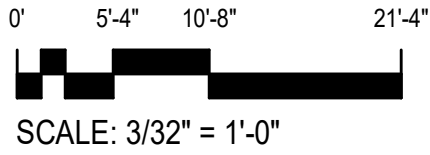
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1 BASEMENT PLAN - BLDG. 19H - REMOVAL PLAN  
AD105 SCALE: 3/32" = 1'-0"



GENERAL REMOVAL NOTES

- A. ITEMS DESIGNATED ON PLAN BY DASHED LINE ARE EXISTING ELEMENTS TO BE REMOVED. REFER TO OTHER TRADE DRAWINGS FOR OTHER REMOVALS, INCLUDING MODIFICATIONS THAT MAY EXTEND BEYOND AREAS SHOWN.
- B. FOR DURATION OF PROJECT, EXISTING CONSTRUCTION AND/OR EQUIPMENT TO REMAIN FROM DAMAGE OR CONSTRUCTION ACTIVITIES, WHERE CONSTRUCTION ACTIVITIES RESULT IN DAMAGE TO EXISTING CONSTRUCTION TO BE RETAINED. REPLACE/REPAIR EXISTING CONSTRUCTION TO RETURN IT TO ITS ORIGINAL CONDITION, WHERE REMOVAL OF EXISTING CONSTRUCTION, PIPING, DUCTWORK, AND OTHER ITEMS CREATES OPENINGS IN WALLS, FLOORS OR CEILINGS, PATCH OPENINGS IMMEDIATELY WITH SAME MATERIALS AS ADJACENT CONSTRUCTION AND/OR TO MAINTAIN REQUIRED FIRE RATING.
- C. PROVIDE FULL HEIGHT TEMPORARY CONSTRUCTION BARRIERS WHERE REQUIRED TO PREVENT DUST POLLUTION OF SURROUNDING OCCUPIED AREAS. SEAL AIR-TIGHT. PARTITIONS MUST BE INSTALLED IN ACCORDANCE WITH FIRE PROTECTION AND EGRESS REQUIREMENTS. MAINTAIN MEANS OF EGRESS ACCESS TO EXITS DURING CONSTRUCTION.
- D. TAKE PROPER MEASURES TO PREVENT DUST MIGRATION TO AREAS OUTSIDE THE CONSTRUCTION AREA BY CLOSING ALL OPENINGS IN DUCTS, WALLS, FLOORS AND CEILINGS. PROVIDE CONTINUOUS EXHAUST TO EXTERIOR TO MAINTAIN NEGATIVE PRESSURE IN CONSTRUCTION AREA.
- E. COORDINATE WITH OWNER FOR EQUIPMENT TO BE SALVAGED AND RETURNED TO OWNER. THE OWNER WILL RETAIN ALL SALVAGE THAT IS OF VALUE AS DESIGNATED BY THE USER OR BUILDING ENGINEER. REMOVE FROM THE BUILDING AND DISPOSE OF IN A LAWFUL MANNER ALL DEBRIS AND/OR ITEMS NOT RETAINED BY OWNER.
- F. INSTALL ADHESIVE MATS INSIDE AND OUTSIDE EACH ACCESS DOOR TO CONSTRUCTION AREA.
- G. COORDINATE WITH OTHER TRADE DRAWINGS FOR REMOVAL WORK, AS REQUIRED.
- H. REFER TO HAZARDOUS MATERIALS REPORT.
- ESTIMATED QUANTITY OF LEAD BASED PAINT REMOVAL IS 3500 SF(325 SM)

AD-105 REMOVAL KEY NOTES

- R13 REFER TO MECHANICAL PLUMBING REMOVAL AND RENOVATION PLANS FOR WORK
- R14 REMOVE EXISTING CEILING PANELS, LIGHT FIXTURES AND OTHER CEILING ELEMENTS. RETAIN FOR REINSTALLATION.
- R15 PROVIDE TEMPORARY CONSTRUCTION ACCESS. REMOVE AFTER COMPLETION OF WORK. MAINTAIN USER ACCESS & USER AT ADJACENT SPACE
- R16 PROVIDE TEMPORARY CONSTRUCTION ACCESS. REMOVE AFTER COMPLETION OF WORK. MAINTAIN USER ACCESS & USER AT ADJACENT SPACE

ICRA NOTES

PROJECT ACTIVITY: TYPE C  
PATIENT RISK GROUP: MEDIUM (MECHANICAL SPACES, OFFICE)  
PATIENT RISK GROUP: CLASS III

DESCRIPTION OF REQUIRED INFECTION PREVENTION PRECAUTIONS BY CLASS

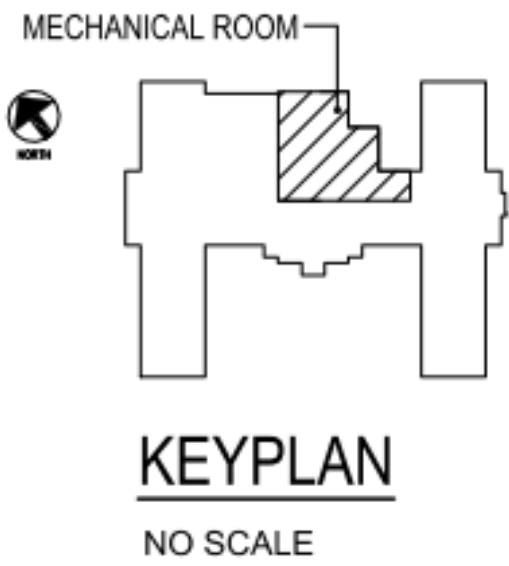
CLASS: CLASS III

DURING CONSTRUCTION

- OBTAIN INFECTION CONTROL PERMIT BEFORE CONSTRUCTION BEGINS.
- ISOLATE HVAC SYSTEM IN AREA WHERE WORK IS BEING DONE TO PREVENT CONTAMINATION OF THE DUCT SYSTEM.
- COMPLETE ALL CRITICAL BARRIERS OR IMPLEMENT CONTROL CUBE METHOD BEFORE CONSTRUCTION BEGINS.
- MAINTAIN NEGATIVE AIR PRESSURE WITHIN WORK SITE UTILIZING HEPA EQUIPPED AIR FILTRATION UNITS.
- REMOVE OR ISOLATE HVAC SYSTEMS IN AREA WHERE WORK IS BEING PERFORMED.
- DO NOT REMOVE BARRIERS FROM WORK SITE UNTIL COMPLETE AND PROJECT IS THOROUGHLY CLEANED BY EMS.
- VACUUM WORK WITH HEPA FILTERED VACUUM.
- WET MOP WITH DISINFECTANT.
- REMOVE BARRIER MATERIAL CAREFULLY TO MINIMIZE SPREADING OF DUST AND DEBRIS ASSOCIATED WITH CONSTRUCTION.
- CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
- COVER TRANSPORT RECEPTACLES OR CART AND TAPE COVERING IN PLACE.

UPON COMPLETION OF CONSTRUCTION

- DO NOT REMOVE BARRIERS FROM WORK AREA UNTIL COMPLETED PROJECT IS INSPECTED BY THE OWNER'S SAFETY DEPARTMENT AND INFECTION PREVENTION COORDINATOR AND THOROUGHLY CLEANED BY EMS ENVIRONMENTAL MANAGEMENT SERVICES.
- REMOVE BARRIER MATERIALS CAREFULLY TO MINIMIZE SPREADING OF DIRT AND DEBRIS ASSOCIATED WITH CONSTRUCTION.
- VACUUM WORK AREA WITH HEPA FILTERED VACUUMS.
- WET MOP AREA WITH DISINFECTANT.
- REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED



		SUBCONSULTANTS		ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	BUILDING 19H REMOVAL PLAN	100% SUBMISSION	UPGRADE STEAM SYSTEMS PATIENT AREAS			512A5-21-304		
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0090  A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER /LANDSCAPE/ SURVEY 800 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377				APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325		PRIME A/E :  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081				Building Number 19H
Revisions:		Date:					Approved:	-	Location VAMC PERRY POINT			AD105		
						VA	U.S. Department of Veterans Affairs		Issue Date 02/02/2024	Checked EJL	Drawn EJL			



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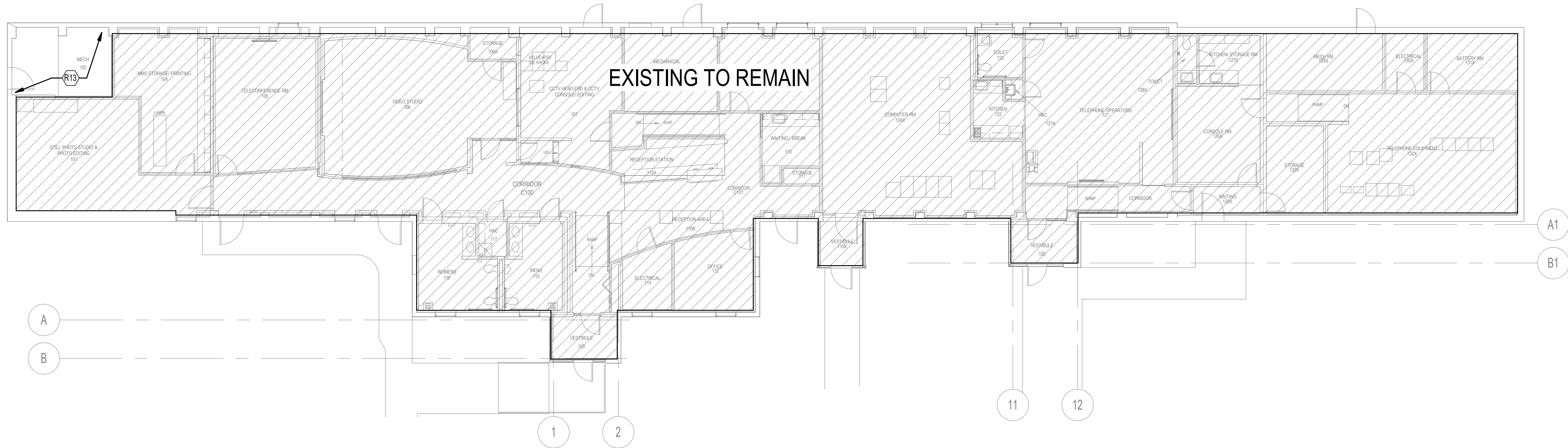
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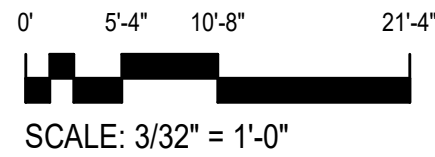
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AD106 FIRST FLOOR PLAN - BLDG. 20H - REMOVAL PLAN  
SCALE: 3/32" = 1'-0"



**GENERAL REMOVAL NOTES**

A. ITEMS DESIGNATED ON PLAN BY DASHED LINE ARE EXISTING ELEMENTS TO BE REMOVED. REFER TO OTHER TRADE DRAWINGS FOR OTHER REMOVALS, INCLUDING MODIFICATIONS THAT MAY EXTEND BEYOND AREAS SHOWN.

B. FOR DURATION OF PROJECT, EXISTING CONSTRUCTION AND/OR EQUIPMENT TO REMAIN FROM DAMAGE OR CONSTRUCTION ACTIVITIES, WHERE CONSTRUCTION ACTIVITIES RESULT IN DAMAGE TO EXISTING CONSTRUCTION TO BE RETAINED. REPLACE/REPAIR EXISTING CONSTRUCTION TO RETURN IT TO ITS ORIGINAL CONDITION. WHERE REMOVAL OF EXISTING CONSTRUCTION, PIPING, DUCTWORK, AND OTHER ITEMS CREATES OPENINGS IN WALLS, FLOORS OR CEILINGS, PATCH OPENINGS IMMEDIATELY WITH SAME MATERIALS AS ADJACENT CONSTRUCTION AND/OR TO MAINTAIN REQUIRED FIRE RATING.

C. PROVIDE FULL HEIGHT TEMPORARY CONSTRUCTION BARRIERS WHERE REQUIRED TO PREVENT DUST POLLUTION OF SURROUNDING OCCUPIED AREAS. SEAL AIR-TIGHT. PARTITIONS MUST BE INSTALLED IN ACCORDANCE WITH FIRE PROTECTION AND EGRESS REQUIREMENTS. MAINTAIN MEANS OF EGRESS ACCESS TO EXITS DURING CONSTRUCTION.

D. TAKE PROPER MEASURES TO PREVENT DUST MIGRATION TO AREAS OUTSIDE THE CONSTRUCTION AREA BY CLOSING ALL OPENINGS IN DUCTS, WALLS, FLOORS AND CEILINGS. PROVIDE CONTINUOUS EXHAUST TO EXTERIOR TO MAINTAIN NEGATIVE PRESSURE IN CONSTRUCTION AREA.

E. COORDINATE WITH OWNER FOR EQUIPMENT TO BE SALVAGED AND RETURNED TO OWNER. THE OWNER WILL RETAIN ALL SALVAGE THAT IS OF VALUE AS DESIGNATED BY THE USER OR BUILDING ENGINEER. REMOVE FROM THE BUILDING AND DISPOSE OF IN A LAWFUL MANNER ALL DEBRIS AND/OR ITEMS NOT RETAINED BY OWNER.

F. INSTALL ADHESIVE MATS INSIDE AND OUTSIDE EACH ACCESS DOOR TO CONSTRUCTION AREA.

G. COORDINATE WITH OTHER TRADE DRAWINGS FOR REMOVAL WORK, AS REQUIRED.

H. REFER TO HAZARDOUS MATERIALS REPORT.

ESTIMATED QUANTITY OF LEAD BASED PAINT REMOVAL IS 3500 SF(325 SM)

**AD-106 REMOVAL KEY NOTES**

R13 REFER TO MECHANICAL PLUMBING REMOVAL AND RENOVATION PLANS FOR WORK

**ICRA NOTES**

PROJECT ACTIVITY: TYPE C  
PATIENT RISK GROUP: LOW RISK (MECHANICAL SPACES)  
PATIENT RISK GROUP: CLASS II

DESCRIPTION OF REQUIRED INFECTION PREVENTION PRECAUTIONS BY CLASS

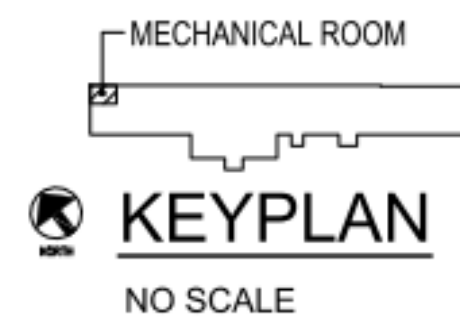
**CLASS: CLASS II**

**DURING CONSTRUCTION**

1. PROVIDES ACTIVE MEANS TO PREVENT AIR-BORNE DUST FROM DISPERSING INTO ATMOSPHERE (SURROUNDING ENVIRONMENT.)
2. WATER MIST WORK SURFACE TO CONTROL DUST WHILE CUTTING
3. SEAL UNUSED DOORS WITH DUCT TAPE.
4. BLOCK OFF AND SEAL DUCT VENTS.
5. WIPE SURFACES WITH DISINFECTANT.
6. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
7. WET MOP AND/OR VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA.
8. PLACE DUST MAT AT ENTRANCE AND EXIT OF WORK AREA.
9. REMOVE OR ISOLATE HVAC SYSTEM IN AREA WHERE WORK IS BEING PERFORMED.

**UPON COMPLETION OF CONSTRUCTION**

1. WIPE WORK SURFACES WITH DISINFECTANT.
2. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
3. WET MOP AND/OR VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA
4. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.



		<b>SUBCONSULTANTS</b>			<b>ARCH./ENGINEER OF RECORD</b>	<b>STAMP</b>	<div>Office of Construction and Facilities Management</div> <div><div>VA</div><div>U.S. Department of Veterans Affairs</div></div>	<b>Drawing Title</b> BUILDING 20H REMOVAL PLAN	<b>Phase</b> 100% SUBMISSION	<b>Project Title</b> UPGRADE STEAM SYSTEMS PATIENT AREAS	<b>Project Number</b> 512A5-21-304	
		<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			<b>MORABITO CONSULTANTS, INC.</b> STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377					<b>Building Number</b> 20H		
		<b>A. MORTON THOMAS AND ASSOCIATES, INC.</b> CIVIL ENGINEER /LANDSCAPE/ SURVEY 800 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545			<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325							
<b>Revisions:</b>		<b>Date:</b>		<b>PRIME A/E:</b> 			<b>VETERAN DESIGN &amp; CONSTRUCTION INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081	<b>Approved:</b>	-	<b>Location</b> VAMC PERRY POINT	<b>Drawing Number</b> AD106	
										<b>Issue Date</b> 02/02/2024	<b>Checked</b> EJL	<b>Drawn</b> LAA



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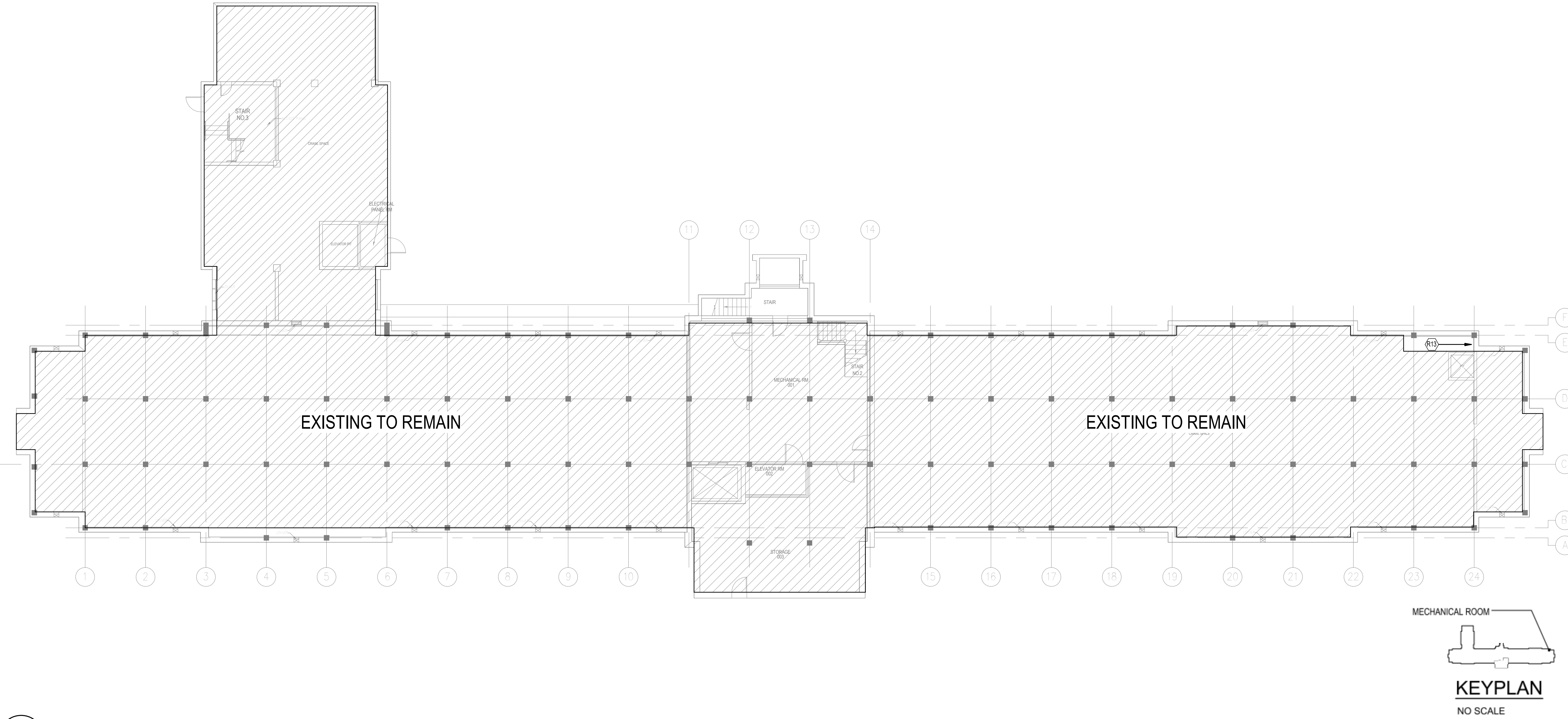
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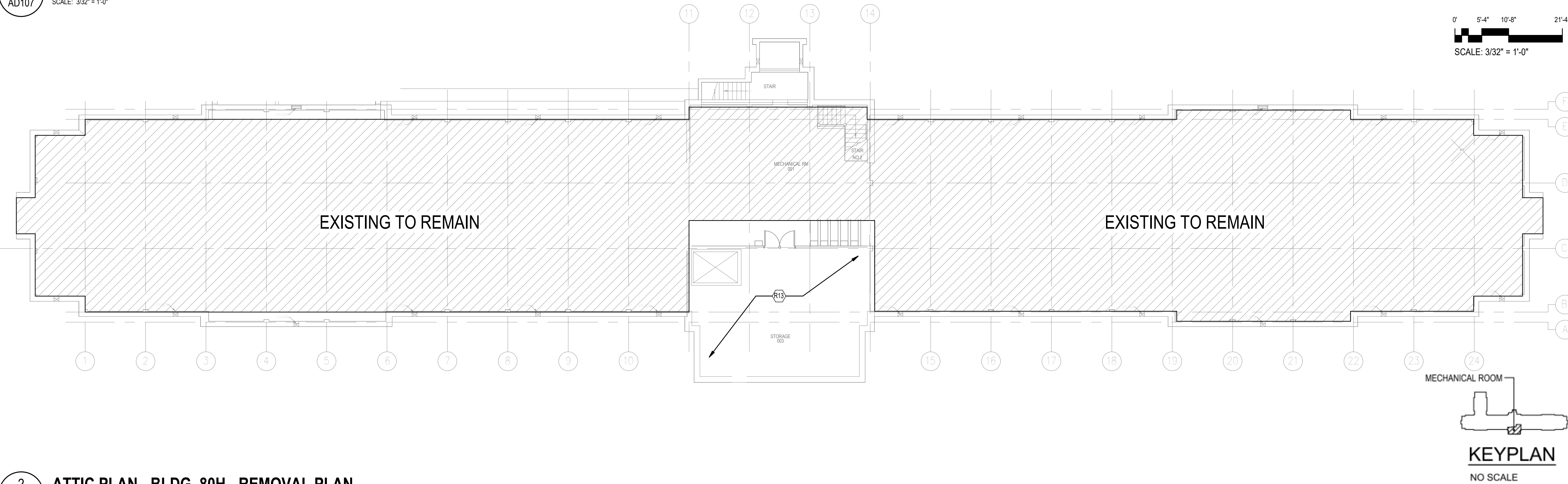
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1 BASEMENT PLAN - BLDG. 80H - REMOVAL PLAN  
AD107 SCALE: 3/32" = 1'-0"



2 ATTIC PLAN - BLDG. 80H - REMOVAL PLAN  
AD107 SCALE: 3/32" = 1'-0"

**GENERAL REMOVAL NOTES**

A. ITEMS DESIGNATED ON PLAN BY DASHED LINE ARE EXISTING ELEMENTS TO BE REMOVED. REFER TO OTHER TRADE DRAWINGS FOR OTHER REMOVALS, INCLUDING MODIFICATIONS THAT MAY EXTEND BEYOND AREAS SHOWN.

B. FOR DURATION OF PROJECT, EXISTING CONSTRUCTION AND/OR EQUIPMENT TO REMAIN FROM DAMAGE OR CONSTRUCTION ACTIVITIES. WHERE CONSTRUCTION ACTIVITIES RESULT IN DAMAGE TO EXISTING CONSTRUCTION TO BE RETAINED, REPLACE/REPAIR EXISTING CONSTRUCTION TO RETURN IT TO ITS ORIGINAL CONDITION. WHERE REMOVAL OF EXISTING CONSTRUCTION, PIPING, DUCTWORK, AND OTHER ITEMS CREATES OPENINGS IN WALLS, FLOORS OR CEILINGS, PATCH OPENINGS IMMEDIATELY WITH SAME MATERIALS AS ADJACENT CONSTRUCTION AND/OR TO MAINTAIN REQUIRED FIRE RATING.

C. PROVIDE FULL HEIGHT TEMPORARY CONSTRUCTION BARRIERS WHERE REQUIRED TO PREVENT DUST POLLUTION OF SURROUNDING OCCUPIED AREAS. SEAL AIR-TIGHT. PARTITIONS MUST BE INSTALLED IN ACCORDANCE WITH FIRE PROTECTION AND EGRESS REQUIREMENTS. MAINTAIN MEANS OF EGRESS ACCESS TO EXITS DURING CONSTRUCTION.

D. TAKE PROPER MEASURES TO PREVENT DUST MIGRATION TO AREAS OUTSIDE THE CONSTRUCTION AREA BY CLOSING ALL OPENINGS IN DUCTS, WALLS, FLOORS AND CEILINGS. PROVIDE CONTINUOUS EXHAUST TO EXTERIOR TO MAINTAIN NEGATIVE PRESSURE IN CONSTRUCTION AREA.

E. COORDINATE WITH OWNER FOR EQUIPMENT TO BE SALVAGED AND RETURNED TO OWNER. THE OWNER WILL RETAIN ALL SALVAGE THAT IS OF VALUE AS DESIGNATED BY THE USER OR BUILDING ENGINEER. REMOVE FROM THE BUILDING AND DISPOSE OF IN A LAWFUL MANNER ALL DEBRIS AND/OR ITEMS NOT RETAINED BY OWNER.

F. INSTALL ADHESIVE MATS INSIDE AND OUTSIDE EACH ACCESS DOOR TO CONSTRUCTION AREA.

G. COORDINATE WITH OTHER TRADE DRAWINGS FOR REMOVAL WORK, AS REQUIRED.

H. REFER TO HAZARDOUS MATERIALS REPORT.

ESTIMATED QUANTITY OF LEAD BASED PAINT REMOVAL IS 3500 SF(325 SM)

**AD-107 REMOVAL KEY NOTES**

R13 REFER TO MECHANICAL PLUMBING REMOVAL AND RENOVATION PLANS FOR WORK

**ICRA NOTES**

PROJECT ACTIVITY: TYPE C  
PATIENT RISK GROUP: LOW RISK (MECHANICAL SPACES)  
PATIENT RISK GROUP: CLASS II

DESCRIPTION OF REQUIRED INFECTION PREVENTION PRECAUTIONS BY CLASS

- | CLASS: CLASS II   | DURING CONSTRUCTION   | UPON COMPLETION OF CONSTRUCTION   |
|---|---|---|
| 1. PROVIDES ACTIVE MEANS TO PREVENT AIR-BORNE DUST FROM DISPERSING INTO ATMOSPHERE (SURROUNDING ENVIRONMENT.) | 2. WATER MIST WORK SURFACE TO CONTROL DUST WHILE CUTTING                      | 1. WIPE WORK SURFACES WITH DISINFECTANT.                                      |
| 2. SEAL UNUSED DOORS WITH DUCT TAPE.  | 3. BLOCK OFF AND SEAL DUCT VENTS.   | 2. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS. |
| 3. WIPE SURFACES WITH DISINFECTANT.   | 4. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS. | 3. WET MOP AND/OR VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA   |
| 4. WET MOP AND/OR VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA.                                  | 5. PLACE DUST MAT AT ENTRANCE AND EXIT OF WORK AREA                           | 4. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.    |
| 5. REMOVE OR ISOLATE HVAC SYSTEM IN AREA WHERE WORK IS BEING PERFORMED.                                       |   |   |

SUBCONSULTANTS		ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management		Drawing Title	Phase	Project Title		Project Number	
DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080		MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	PRIME A/E: VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		BUILDING 80H REMOVAL PLAN	100% SUBMISSION	UPGRADE STEAM SYSTEMS PATIENT AREAS		512A5-21-304	
A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER /LANDSCAPE/ SURVEY 800 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545				U.S. Department of Veterans Affairs		Approved:	-	Location		Drawing Number	
Revisions:		Date:						VAMC PERRY POINT		AD107	
								Issue Date		Checked	
								02/02/2024		EJL	
								Drawn		LAA	





SCALE: 3/32" = 1'-0"

SCALE: 3/32" = 1'-0"

0' 5'-4" 10'-8" 21'-4"

SCALE:  $\frac{3}{32}'' = 1'-0''$

A	<p>ITEMS DESIGNATED ON PLAN BY DASHED LINE ARE EXISTING ELEMENTS TO BE REMOVED. REFER TO OTHER TRADE DRAWINGS FOR OTHER REMOVALS, INCLUDING MODIFICATIONS THAT MAY EXTEND BEYOND AREAS SHOWN.</p> <p>REPAIR OR REPLACE EXISTING CONSTRUCTION TO RETURN TO ORIGINAL CONDITION TO PREVENT DAMAGE OR OBSTRUCTION ACTIVITIES WHERE CONSTRUCTION ACTIVITIES RESULT IN DAMAGE TO EXISTING CONSTRUCTION TO BE RETAINED.</p> <p>REPLACE/REPAIR EXISTING CONSTRUCTION TO RETURN IT TO ITS ORIGINAL CONDITION, WHERE REMOVAL OF EXISTING CONSTRUCTION IS REQUIRED TO PREVENT DAMAGE TO EXISTING CONSTRUCTION TO BE RETAINED.</p> <p>OPENINGS IMMEDIATELY W/ SAME MATERIALS AS ADJACENT CONSTRUCTION AND/OR TO MAINTAIN REQUIRED FIRE RATING.</p>
C	<p>PROVIDE FULL HEIGHT TEMPORARY CONSTRUCTION BARRIERS WHERE REQUIRED TO PREVENT DUST POLLUTION OF ADJACENT AREAS AND/OR TRAFFIC AREAS.</p>
D	<p>TAKE PREPARE MEASURES TO PREVENT DUST MIGRATION TO AREAS OUTSIDE THE CONSTRUCTION AREA BY CLOSING ALL OPENINGS TO THE OUTSIDE AND SEALING AND CEILING. PROVIDE CONTINUOUS EXHAUST TO EXTERIOR TO MAINTAIN NEGATIVE PRESSURE IN CONSTRUCTION AREA.</p>
E	<p>COORDINATE WITH OWNER FOR EQUIPMENT TO BE SALVAGED AND RETURNED TO OWNER. THE OWNER WILL RETAIN ALL RIGHTS IN THE EQUIPMENT. REMOVE FROM THE PROJECT SITE AND REMOVE FROM THE BUILDING AND DISPOSE OF IN A LAWFUL MANNER ALL IDEBS AND/OR ITEMS NOT RETAINED BY OWNER.</p>
F	<p>INSTALL ADHESIVE MATS INSIDE AND OUTSIDE EACH ACCESS DOOR TO CONSTRUCTION AREA.</p>
G	<p>COORDINATE WITH OTHER TRADE DRAWINGS FOR REMOVAL OF MATERIALS, AS REQUIRED.</p>
H	<p>REPORT TO HAZARDOUS MATERIALS REPORT.</p>
I	<p>ESTIMATED QUANTITY OF LEAD BASED PAINT REMOVAL IS 3500 SF (325 MI).</p>



R13 REFER TO MECHANICAL PLUMBING REMOVAL AND RENOVATION PLANS FOR WORK

PROJECT ACTIVITY: TYPE C  
PATIENT RISK GROUP: LOW RISK (MECHANICAL SPACES)  
PATIENT RISK GROUP: CLASS II

PROJECT ACTIVITY: TYPE C  
PATIENT RISK GROUP: LOW RISK (MECHANICAL SPACES)  
PATIENT RISK GROUP: CLASS II

DESCRIPTION OF REQUIRED INFECTION PREVENTION PRECAUTIONS BY CLASS

**CLASS: CLASS II**

DURING CONSTRUCTION

1. **PROVIDES** ACTIVE MEANS TO PREVENT AIR-BORNE DUST FROM DISPERSING INTO ATMOSPHERE (SURROUNDING ENVIRONMENT.)
2. **WATER MIST** WORK SURFACE TO CONTROL DUST WHILE CUTTING
3. **SEAL** UNUSED DOORS WITH DUCT TAPE.
4. **BLOCK OFF** AND **SEAL** DUCT VENTS.
5. **WIPE** SURFACES WITH DISINFECTANT.
6. **CONTAIN** CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
7. **WET MOP** AND/OR **VACUUM** WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA.
8. **PLACE** DUST MAT AT ENTRANCE AND EXIT OF WORK AREA.
9. **REMOVE OR ISOLATE** HVAC SYSTEM IN AREA WHERE WORK IS BEING PERFORMED.

UPON COMPLETION OF CONSTRUCTION

1. WIPE WORK SURFACES WITH DISINFECTANT.
2. CONTAIN CONSTRUCTION WASTE BEFORE TRANSPORT IN TIGHTLY COVERED CONTAINERS.
3. WET MOP AND/OR VACUUM WITH HEPA FILTERED VACUUM BEFORE LEAVING WORK AREA
4. REMOVE ISOLATION OF HVAC SYSTEM IN AREAS WHERE WORK IS BEING PERFORMED.

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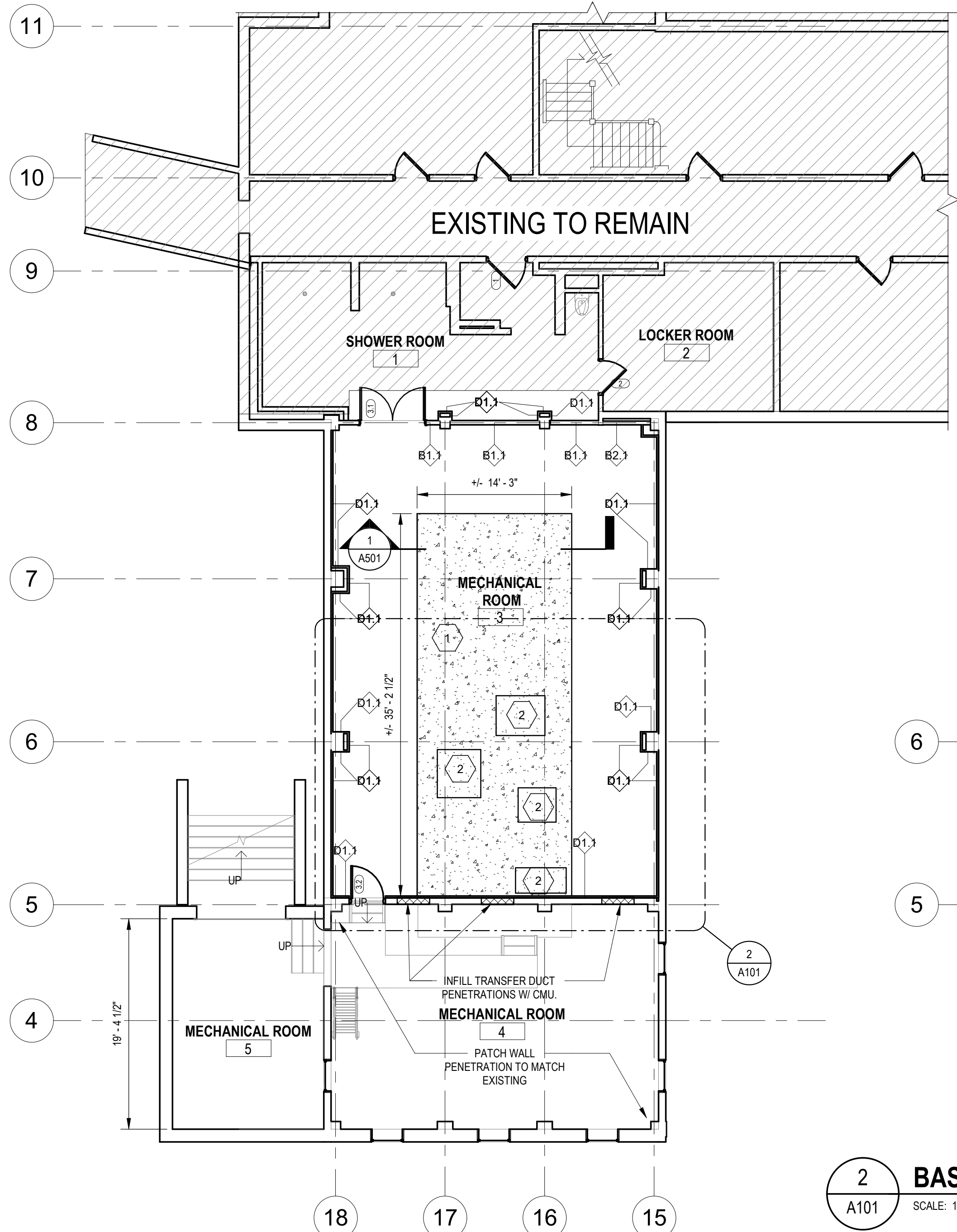
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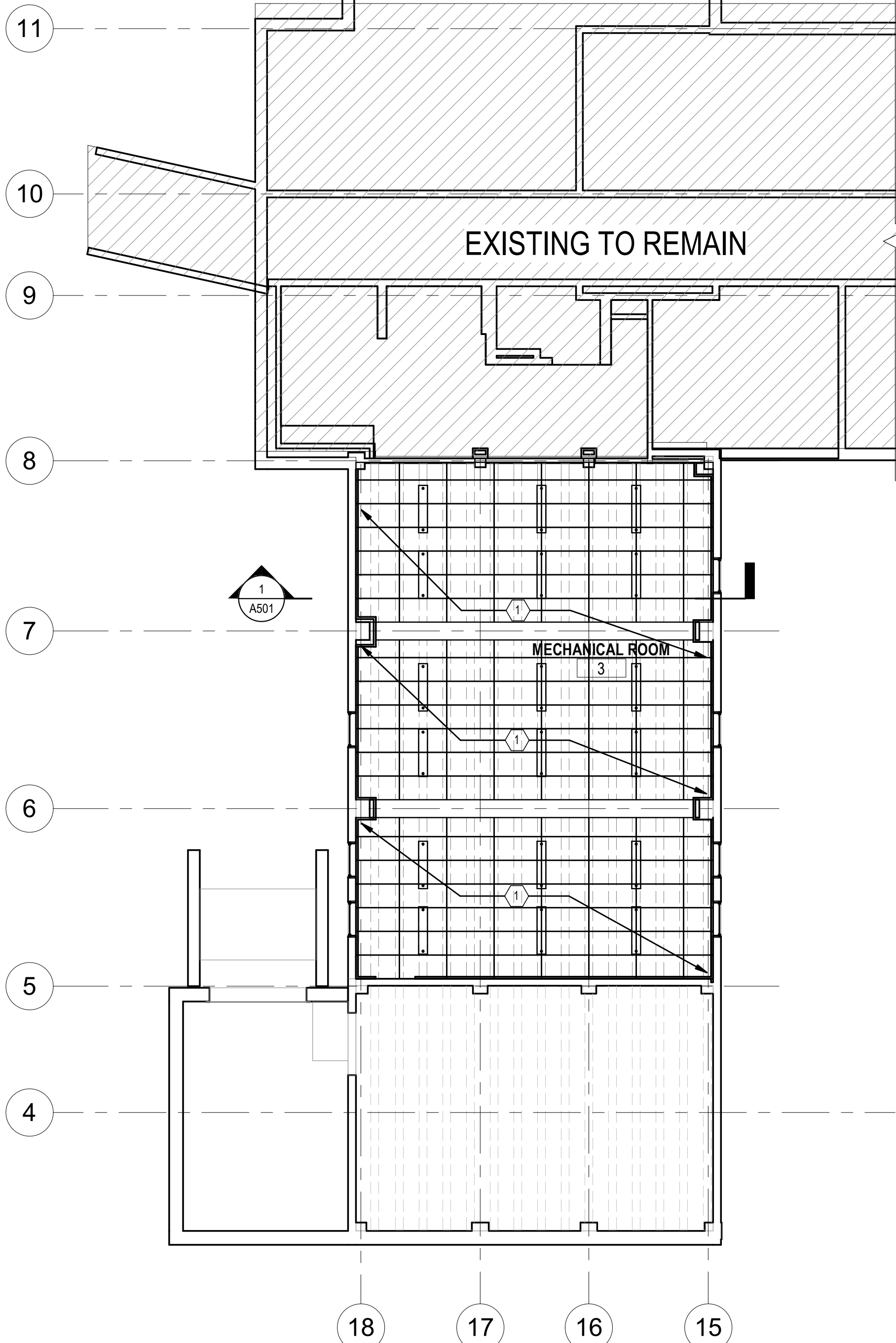
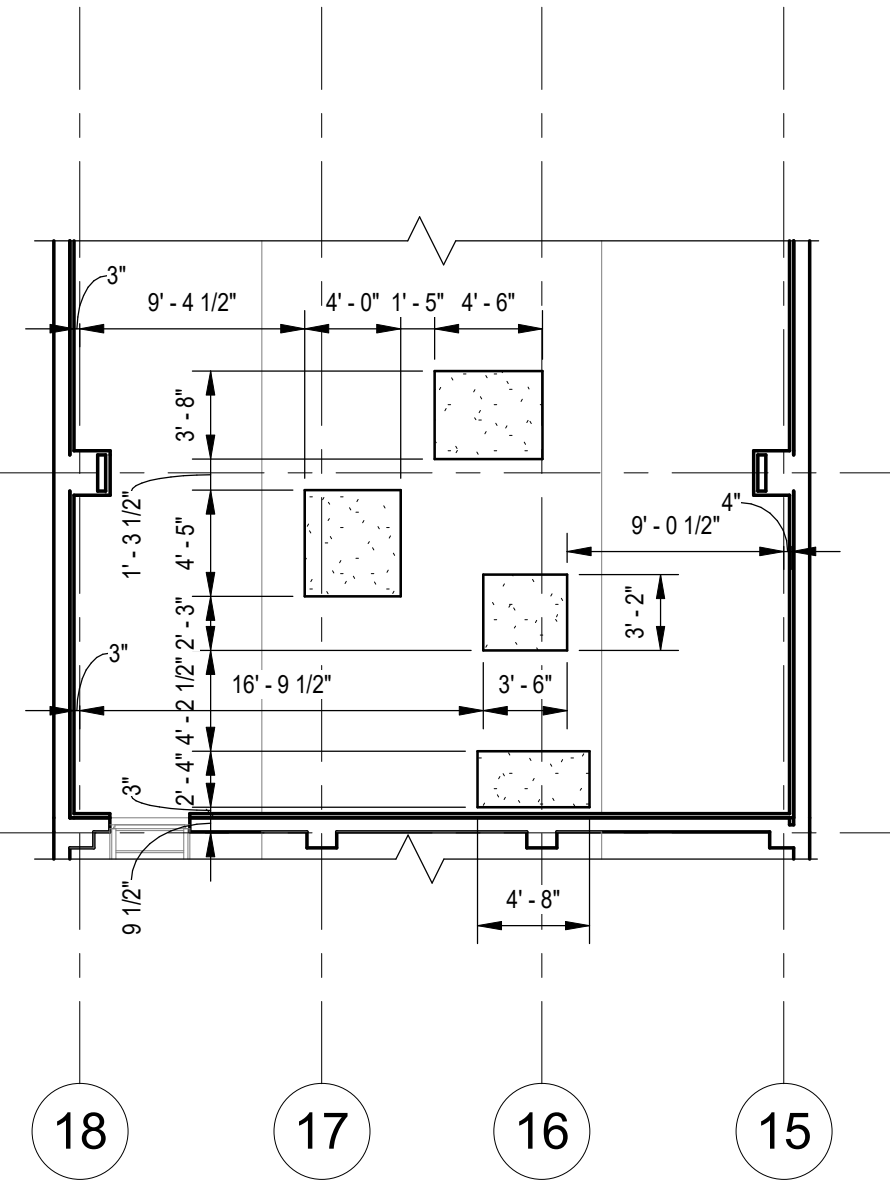
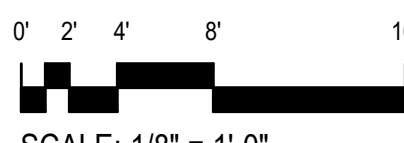
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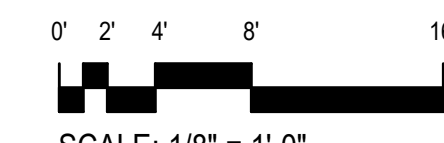
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2 BASEMENT RENOVATION - HOUSEKEEPING PAD LOCATION  
A101 SCALE: 1/8" = 1'-0"



3 BASEMENT RENOVATION RCP  
A101 SCALE: 1/8" = 1'-0"



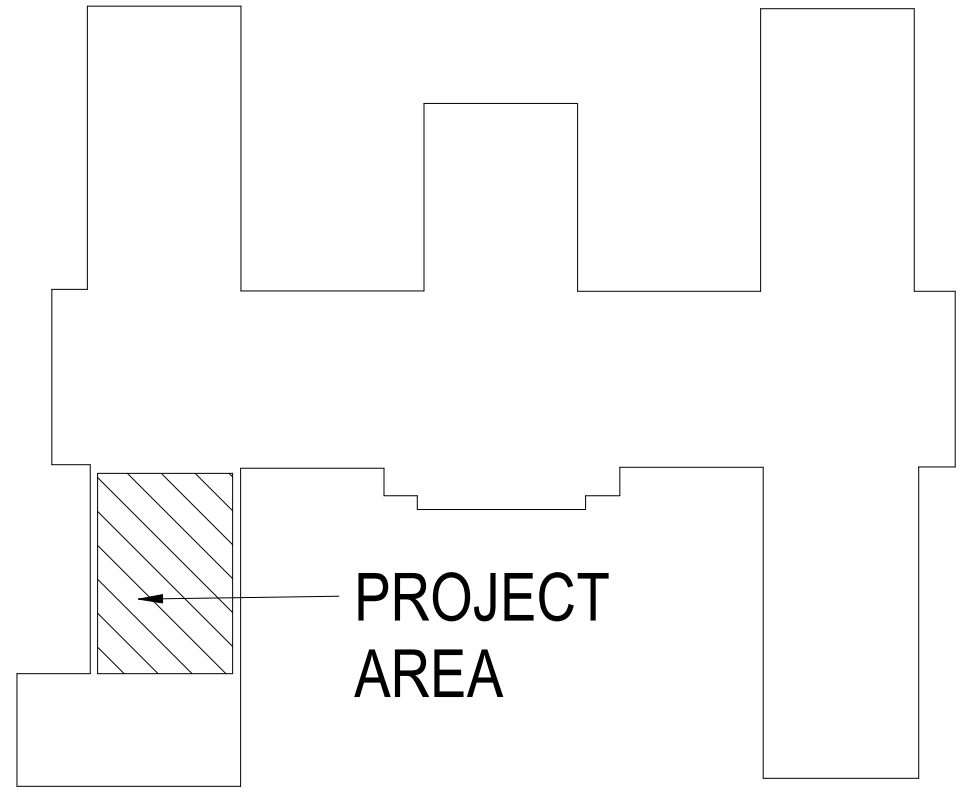
1 RENOVATION BASEMENT PLAN  
A101 SCALE: 1/8" = 1'-0"

- GENERAL ARCHITECTURAL NOTES**
- VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK. EXISTING CONDITIONS THAT WOULD EFFECT THE EXECUTION OF THE WORK MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING THE WORK.
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  - REMOVE ALL EXCESS BUILD-UP OF EXISTING AND/OR NEW WALL AND PAINT MATERIALS FROM ALL NEW AND EXISTING WALL SURFACES. CLEAN AND FINISH SAND SMOOTH TO PROVIDE A UNIFORM AND SMOOTH WALL SURFACE READY FOR THE APPLICATION OF FINISH MATERIALS.
  - DIMENSIONS LOCATING DOORS OR INTERIOR WINDOWS ARE TO OUTSIDE EDGE OF FRAME UNLESS NOTED OTHERWISE. REFER TO DOOR & WINDOW SHEETS FOR FRAME TYPE, SIZE AND DETAILS.
  - REFER TO CIVIL, STRUCTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

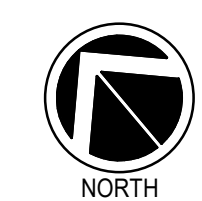
- RENOVATION KEY NOTES**
- NEW CONCRETE FLOORING AT NEW MECHANICAL ROOM SPACE.
  - NEW HOUSEKEEPING PAD AT NEW MECHANICAL ROOM SPACE. SEE 2/A101 FOR MORE INFORMATION.

- GENERAL REFLECTED CEILING NOTES**
- IN CASE DISCREPANCIES ARISE IN THE LOCATION OF CEILING MOUNTED COMPONENTS WITH OTHER TRADE DRAWINGS, THE REFLECTED CEILING PLAN GOVERNS. WHERE THIS CANNOT BE ACHIEVED, NOTIFY THE ARCHITECT PRIOR TO CONTINUATION OF WORK.
  - CENTER AS SHOWN IN ROOM OR DEFINED BOUNDARY ACOUSTICAL CEILING GRIDS UNLESS DIMENSIONED OR NOTED OTHERWISE. SPRINKLER HEADS AND DOWNLIGHTS TO BE CENTERED IN CEILING PANELS, OR SPACED OUT ACCORDING TO GOVERNING CODE, UNLESS DIMENSIONED OR NOTED OTHERWISE.
  - IF UNDIMENSIONED, DEVICES LOCATED WITHIN ACOUSTICAL CEILING TILES, GYPSUM BOARD CEILINGS, OR SOFFITS ARE TO BE CENTERED, UNLESS OTHERWISE NOTED. MULTIPLE DEVICES SHALL FOLLOW THE GRAPHIC DEPICTION ON THE DRAWINGS AS CLOSELY AS POSSIBLE, ALIGNING DEVICES WITH RESPECT TO ONE ANOTHER AND SPACED EVENLY AS SHOWN.
  - HEIGHTS SHOWN ARE TO BOTTOM OF GRID SYSTEM, GYPSUM BOARD, OR OTHER CEILING SYSTEM ABOVE FINISHED FLOOR (AFF) UNLESS OTHERWISE NOTED.
  - FINISH HORIZONTAL AND VISIBLE VERTICAL SURFACES OF GYPSUM BOARD SOFFITS AS SCHEDULED UNLESS OTHERWISE NOTED. REFER TO FINISH SCHEDULE AND LEGEND FOR ADDITIONAL INFORMATION.
  - PROVIDE PAINT FINISH TO GYPSUM BOARD CEILINGS AS SCHEDULED UNLESS NOTED OTHERWISE.
  - REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING DIFFUSERS, GRILLES, AND OTHER RELATED CEILING BASED EQUIPMENT.
  - REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING LIGHT FIXTURE TYPES, FIRE ALARM DEVICES, SMOKE DETECTION DEVICES AND OTHER SPECIAL SYSTEMS MOUNTED TO CEILINGS.
  - REFER TO FINISH PLANS, FINISH LEGEND, AND FINISH SCHEDULE FOR ADDITIONAL INFORMATION.

- RCP RENOVATION KEY NOTES**
- INSTALL LAY-IN INSULATION PANEL CEILING



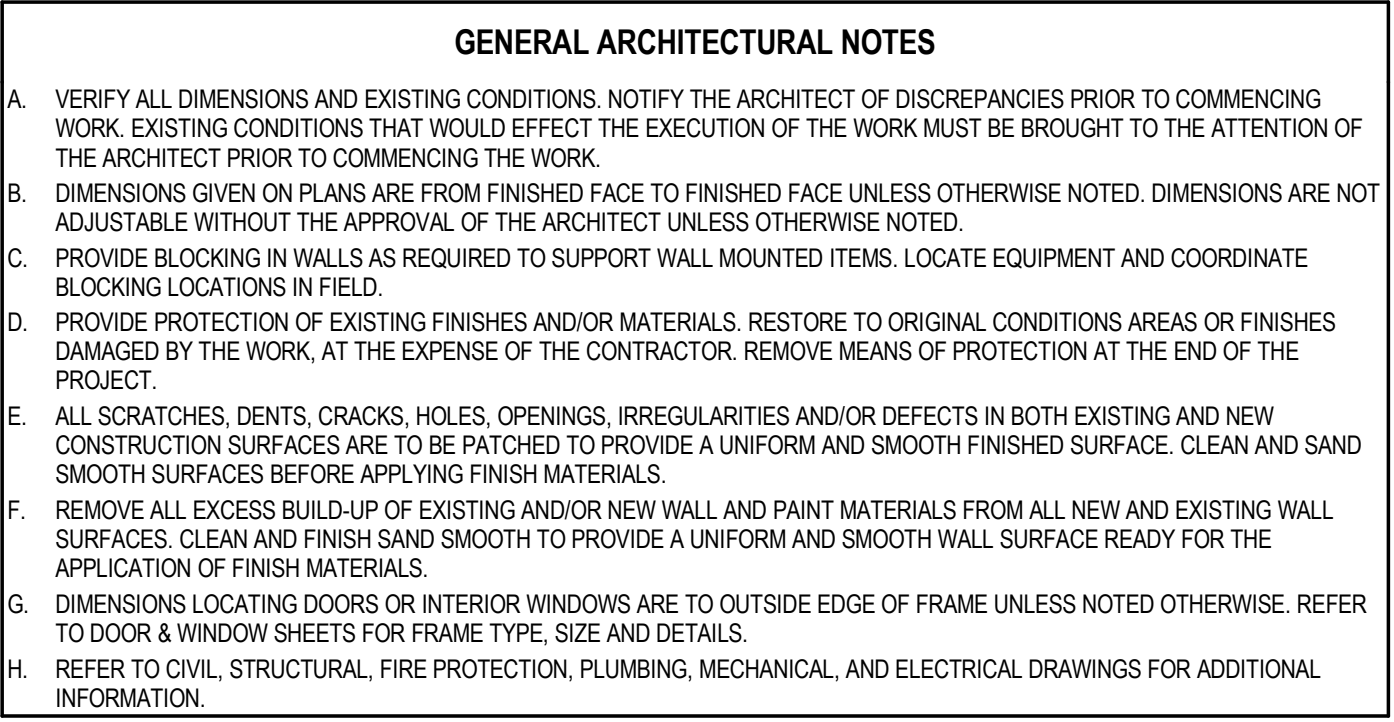
KEYPLAN  
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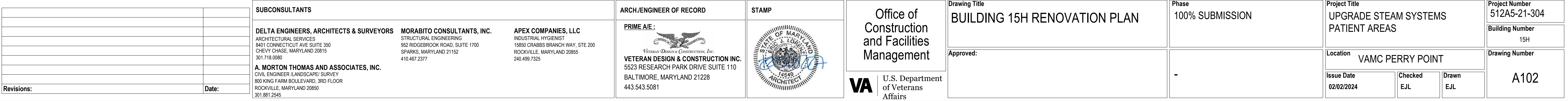
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SCALE: 3/32" = 1'-0"





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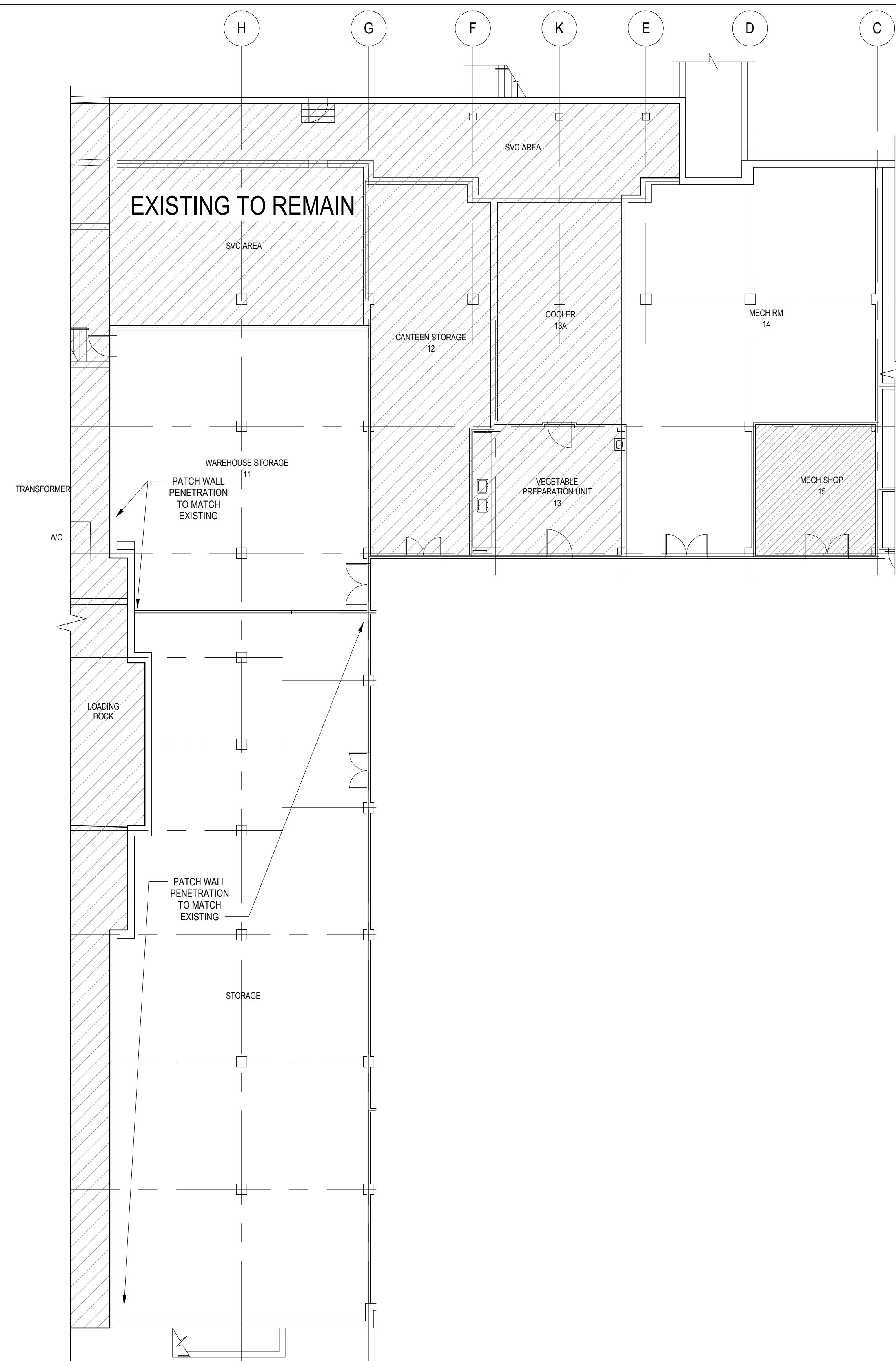
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A. VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK. EXISTING CONDITIONS THAT WOULD EFFECT THE EXECUTION OF THE WORK MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING THE WORK.

B. PROVIDE COVER ON PLANS ARE FROM FINISHED SURFACE TO FINISHED FACE UNLESS OTHERWISE NOTED. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT UNLESS OTHERWISE NOTED.

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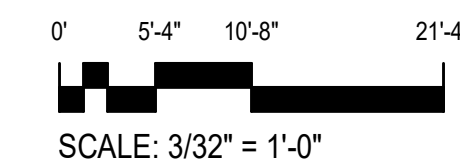
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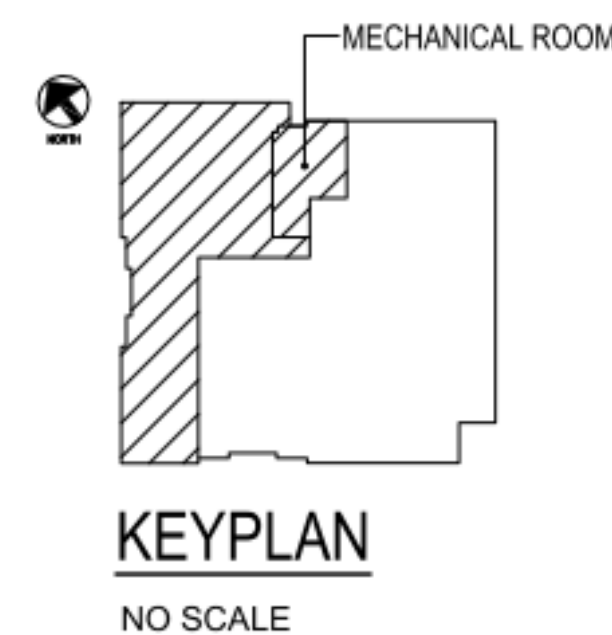
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**BASEMENT PLAN - BLDG. 17H - RENOVATION PLAN**

SCALE:  $\frac{3}{32}'' = 1'-0''$

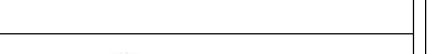



SCALE: 3/32" = 1'-0"



## KEYPLAN

NO SCALE

		SUBCONSULTANTS		ARCH/ENGINEER OF RECORD		STAMP		<div>Office of Construction and Facilities Management</div> <div>U.S. Department of Veterans Affairs</div>		Drawing Title <b>BUILDING 17H RENOVATION PLAN</b>		Phase 100% SUBMISSION		Project Title <b>UPGRADE STEAM SYSTEMS PATIENT AREAS</b>		Project Number <b>512A5-21-304</b>	
		<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0590		<b>MORABITO CONSULTANTS, INC.</b> INDUSTRIAL HYGIENE 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 301.718.0590		<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENE 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 301.718.0590				Approved:				Location <b>VAMC PERRY POINT</b>		Drawing Number <b>A103</b>	
<b>Revisions:</b>		<b>A. MORTON THOMAS AND ASSOCIATES, INC.</b> CIVIL ENGINEER (LANDSCAPE) SURVEY 800 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		<b>VETERAN DESIGN &amp; CONSTRUCTION INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081								Issue Date 02/02/2024		Checked E.J.L.		Drawn E.J.L.	



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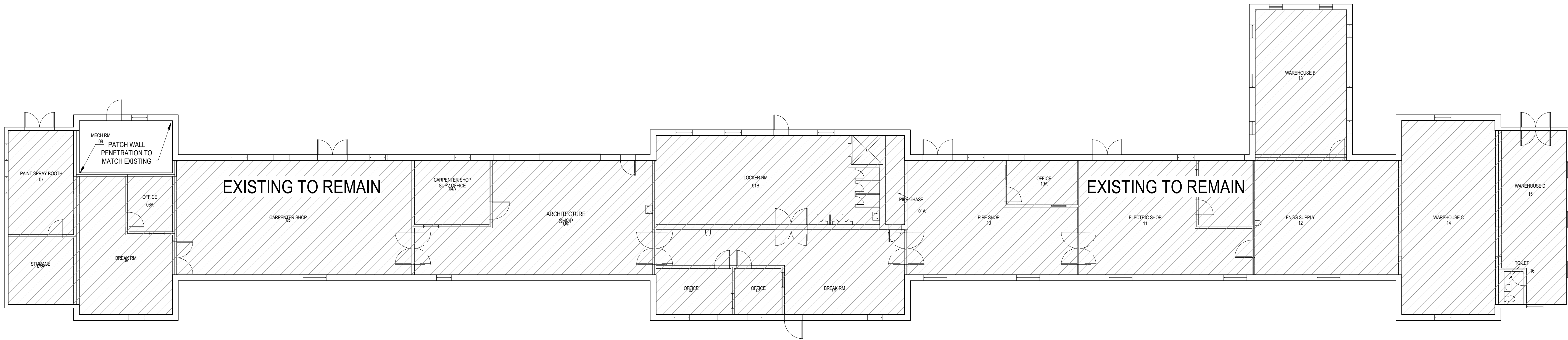
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- GENERAL ARCHITECTURAL NOTES
- A.

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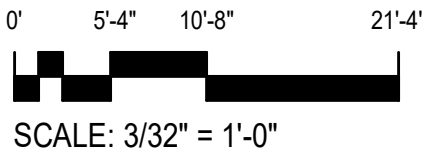
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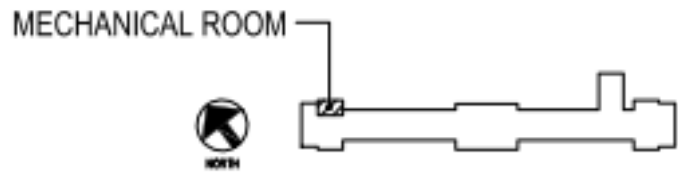


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A104

FIRST FLOOR PLAN - BLDG. 18H - RENOVATION PLAN

SCALE: 3/32" = 1'-0"



KEYPLAN

NO SCALE

		SUBCONSULTANTS		ARCH./ENGINEER OF RECORD		STAMP		<div>Office of Construction and Facilities Management</div> <div>VA<div>U.S. Department of Veterans Affairs</div></div>		Drawing Title		Phase		Project Title		Project Number	
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 6401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0090		MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377		APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325				BUILDING 18H RENOVATION PLAN		100% SUBMISSION		UPGRADE STEAM SYSTEMS PATIENT AREAS		512A5-21-304	
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER /LANDSCAPE/ SURVEY 800 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081						Approved:		-		Location		Drawing Number	
Revisions:		Date:												VAMC PERRY POINT		A104	
												Issue Date		Checked		Drawn	
												02/02/2024		EJL		EJL	



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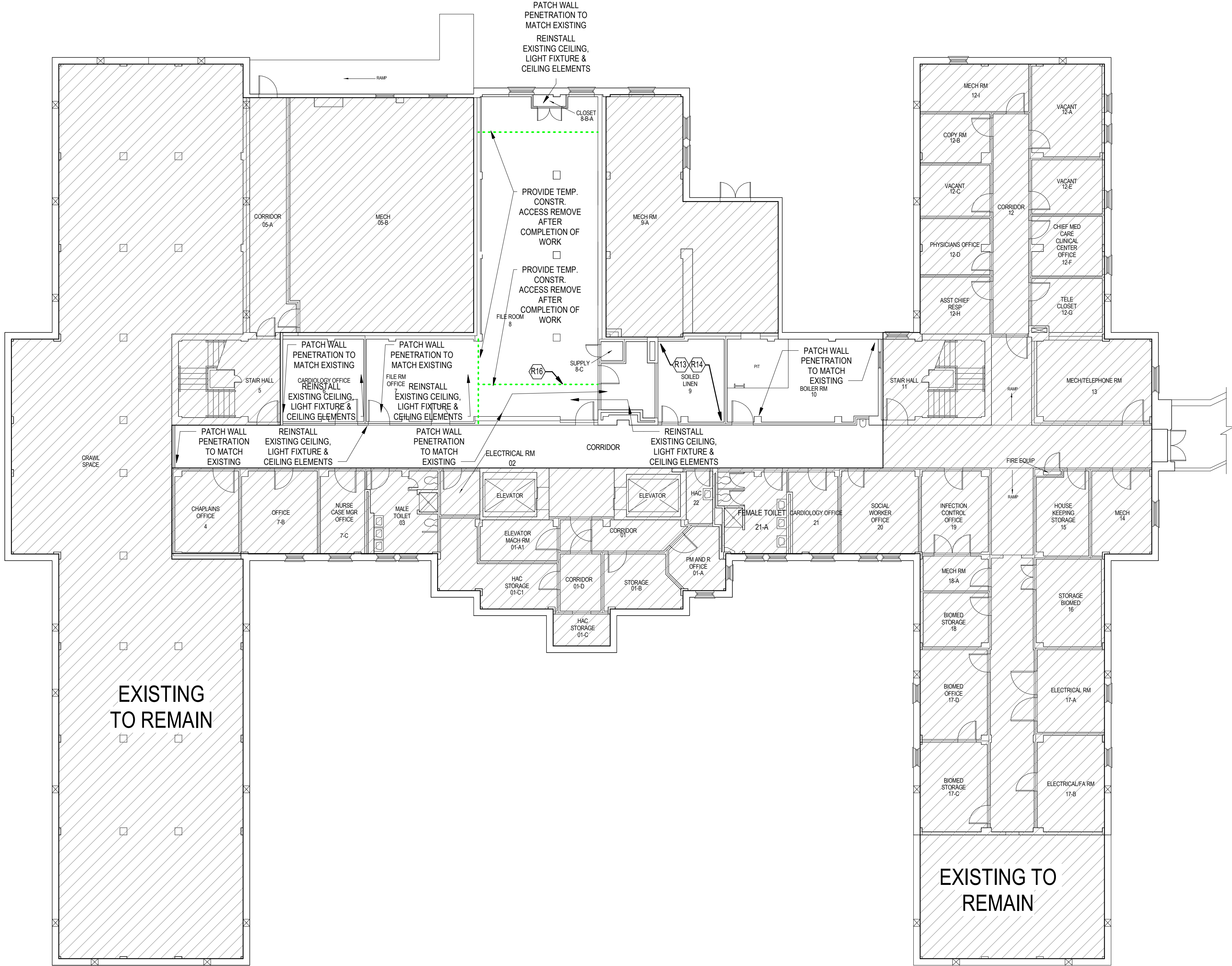
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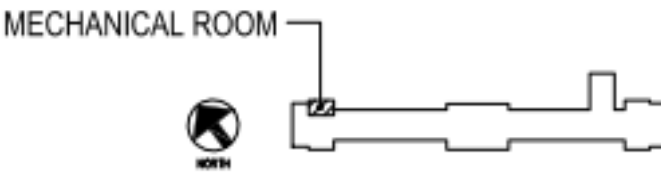
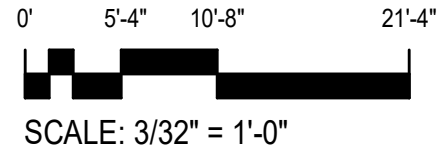
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- C. PROVIDE BLOCKING IN WALLS AS REQUIRED TO SUPPORT WALL MOUNTED ITEMS. LOCATE EQUIPMENT AND COORDINATE BLOCKING LOCATIONS IN FIELD.
- D. PROVIDE PROTECTION OF EXISTING FINISHES AND/OR MATERIALS. RESTORE TO ORIGINAL CONDITIONS AREAS OR FINISHES DAMAGED BY THE WORK, AT THE EXPENSE OF THE CONTRACTOR. REMOVE MEANS OF PROTECTION AT THE END OF THE PROJECT.
- E. ALL SCRATCHES, DENTS, CRACKS, HOLES, OPENINGS, IRREGULARITIES AND/OR DEFECTS IN BOTH EXISTING AND NEW CONSTRUCTION SURFACES ARE TO BE PATCHED TO PROVIDE A UNIFORM AND SMOOTH FINISHED SURFACE. CLEAN AND SAND SMOOTH SURFACES BEFORE APPLYING FINISH MATERIALS.
- F. REMOVE ALL EXCESS BUILD-UP OF EXISTING AND/OR NEW WALL AND PAINT MATERIALS FROM ALL NEW AND EXISTING WALL SURFACES. CLEAN AND FINISH SAND SMOOTH TO PROVIDE A UNIFORM AND SMOOTH WALL SURFACE READY FOR THE APPLICATION OF FINISH MATERIALS.
- G. DIMENSIONS LOCATING DOORS OR INTERIOR WINDOWS ARE TO OUTSIDE EDGE OF FRAME UNLESS NOTED OTHERWISE. REFER TO DOOR & WINDOW SHEETS FOR FRAME TYPE, SIZE AND DETAILS.
- H. REFER TO CIVIL, STRUCTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



1 BASEMENT PLAN - BLDG. 19H - RENOVATION PLAN  
A105 SCALE: 3/32" = 1'-0"



KEYPLAN  
NO SCALE

		SUBCONSULTANTS		ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management  VA U.S. Department of Veterans Affairs	Drawing Title BUILDING 19H RENOVATION PLAN	Phase 100% SUBMISSION	Project Title UPGRADE STEAM SYSTEMS PATIENT AREAS	Project Number 512A5-21-304
Revisions:		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0090	MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		Approved:	-	Location VAMC PERRY POINT	Building Number 19H
Date:		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER /LANDSCAPE/ SURVEY 800 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545						Issue Date 02/02/2024	Checked EJL	Drawn EJL
										Drawing Number A105



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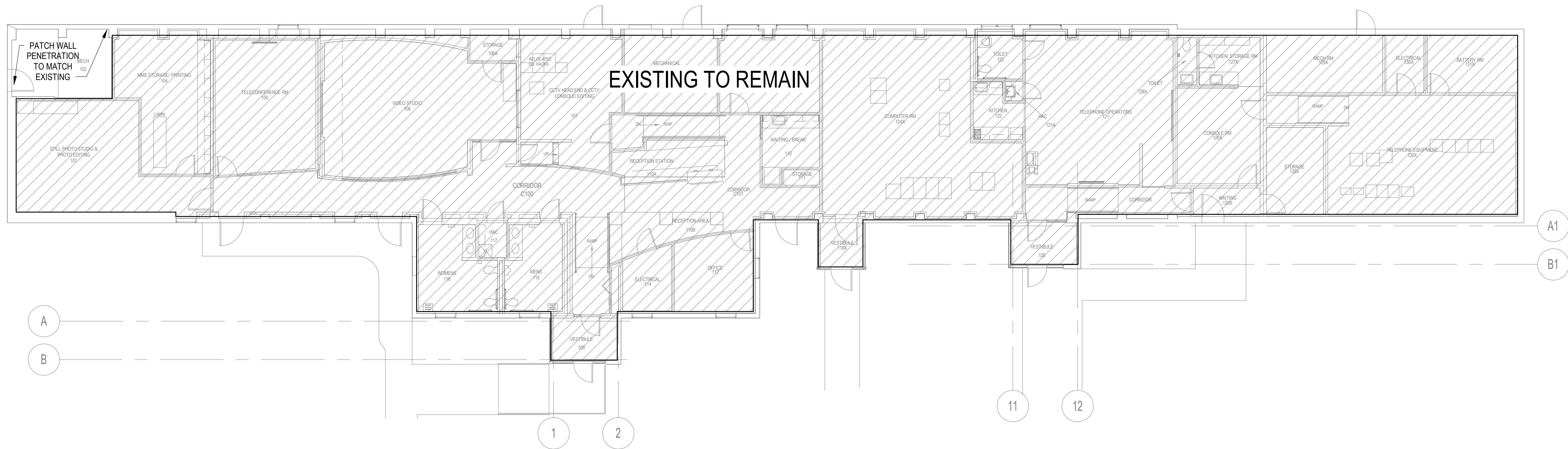
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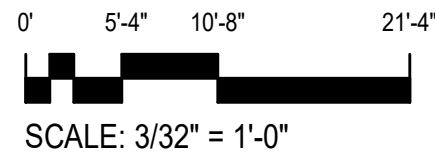


- GENERAL ARCHITECTURAL NOTES**
- A. VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK. EXISTING CONDITIONS THAT WOULD EFFECT THE EXECUTION OF THE WORK MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING THE WORK.
  - B. DIMENSIONS GIVEN ON PLANS ARE FROM FINISHED FACE TO FINISHED FACE UNLESS OTHERWISE NOTED. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT UNLESS OTHERWISE NOTED.
  - C. PROVIDE BLOCKING IN WALLS AS REQUIRED TO SUPPORT WALL MOUNTED ITEMS. LOCATE EQUIPMENT AND COORDINATE BLOCKING LOCATIONS IN FIELD.
  - D. PROVIDE PROTECTION OF EXISTING FINISHES AND/OR MATERIALS. RESTORE TO ORIGINAL CONDITIONS AREAS OR FINISHES DAMAGED BY THE WORK, AT THE EXPENSE OF THE CONTRACTOR. REMOVE MEANS OF PROTECTION AT THE END OF THE PROJECT.
  - E. ALL SCRATCHES, DENTS, CRACKS, HOLES, OPENINGS, IRREGULARITIES AND/OR DEFECTS IN BOTH EXISTING AND NEW CONSTRUCTION SURFACES ARE TO BE PATCHED TO PROVIDE A UNIFORM AND SMOOTH FINISHED SURFACE. CLEAN AND SAND SMOOTH SURFACES BEFORE APPLYING FINISH MATERIALS.
  - F. REMOVE ALL EXCESS BUILD-UP OF EXISTING AND/OR NEW WALL AND PAINT MATERIALS FROM ALL NEW AND EXISTING WALL SURFACES. CLEAN AND FINISH SAND SMOOTH TO PROVIDE A UNIFORM AND SMOOTH WALL SURFACE READY FOR THE APPLICATION OF FINISH MATERIALS.
  - G. DIMENSIONS LOCATING DOORS OR INTERIOR WINDOWS ARE TO OUTSIDE EDGE OF FRAME UNLESS NOTED OTHERWISE. REFER TO DOOR & WINDOW SHEETS FOR FRAME TYPE, SIZE AND DETAILS.
  - H. REFER TO CIVIL, STRUCTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

**AD-106 REMOVAL KEY NOTES**



R13 REFER TO MECHANICAL PLUMBING REMOVAL AND RENOVATION PLANS FOR WORK

**1 FIRST FLOOR PLAN - BLDG. 20H - RENOVATION PLAN**  
A106 SCALE: 3/32" = 1'-0"



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		<b>SUBCONSULTANTS</b>		<b>ARCH./ENGINEER OF RECORD</b>	<b>STAMP</b>	<b>Office of Construction and Facilities Management</b>	<b>Drawing Title</b> BUILDING 20H RENOVATION PLAN	<b>Phase</b> 100% SUBMISSION	<b>Project Title</b> UPGRADE STEAM SYSTEMS PATIENT AREAS	<b>Project Number</b> 512A5-21-304
		<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	<b>MORABITO CONSULTANTS, INC.</b> STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	<b>PRIME A/E:</b>  <b>VETERAN DESIGN &amp; CONSTRUCTION INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		<b>Approved:</b>	-	<b>Location</b> VAMC PERRY POINT	<b>Building Number</b> 20H
<b>Revisions:</b>		<b>A. MORTON THOMAS AND ASSOCIATES, INC.</b> CIVIL ENGINEER /LANDSCAPE/ SURVEY 800 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545				<b>U.S. Department of Veterans Affairs</b>			<b>Issue Date</b> 02/02/2024	<b>Drawing Number</b> A106
									<b>Checked</b> EJL	<b>Drawn</b> EJL



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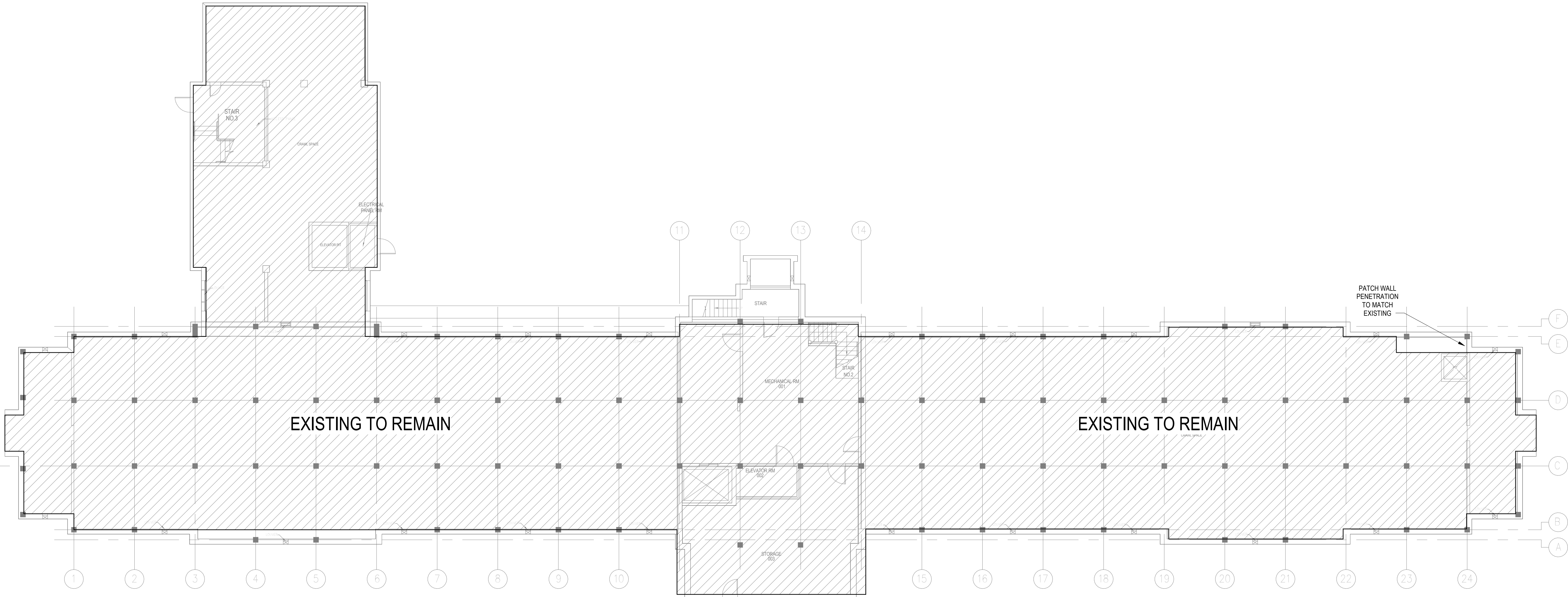
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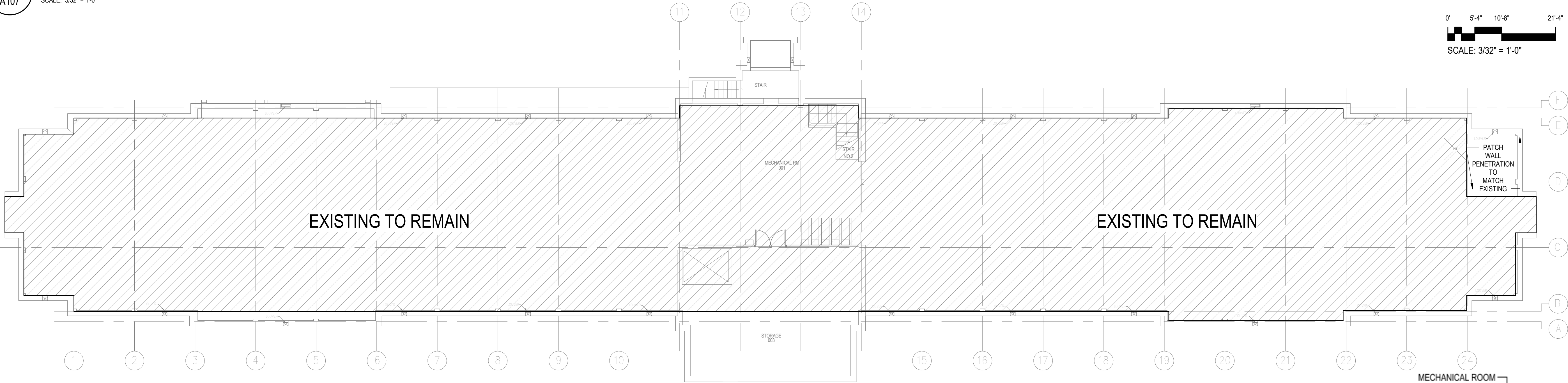
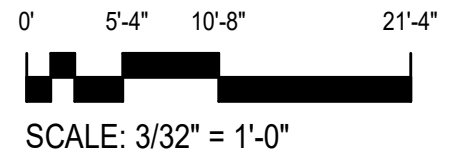
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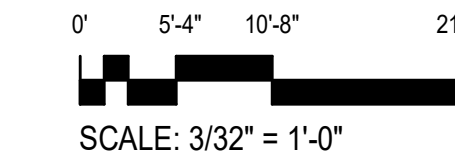


- GENERAL ARCHITECTURAL NOTES**
- A. VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK. EXISTING CONDITIONS THAT WOULD EFFECT THE EXECUTION OF THE WORK MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING THE WORK.
  - B. DIMENSIONS GIVEN ON PLANS ARE FROM FINISHED FACE TO FINISHED FACE UNLESS OTHERWISE NOTED. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT UNLESS OTHERWISE NOTED.
  - C. PROVIDE BLOCKING IN WALLS AS REQUIRED TO SUPPORT WALL MOUNTED ITEMS. LOCATE EQUIPMENT AND COORDINATE BLOCKING LOCATIONS IN FIELD.
  - D. PROVIDE PROTECTION OF EXISTING FINISHES AND/OR MATERIALS. RESTORE TO ORIGINAL CONDITIONS AREAS OR FINISHES DAMAGED BY THE WORK, AT THE EXPENSE OF THE CONTRACTOR. REMOVE MEANS OF PROTECTION AT THE END OF THE PROJECT.
  - E. ALL SCRATCHES, DENTS, CRACKS, HOLES, OPENINGS, IRREGULARITIES AND/OR DEFECTS IN BOTH EXISTING AND NEW CONSTRUCTION SURFACES ARE TO BE PATCHED TO PROVIDE A UNIFORM AND SMOOTH FINISHED SURFACE. CLEAN AND SAND SMOOTH SURFACES BEFORE APPLYING FINISH MATERIALS.
  - F. REMOVE ALL EXCESS BUILD-UP OF EXISTING AND/OR NEW WALL AND PAINT MATERIALS FROM ALL NEW AND EXISTING WALL SURFACES. CLEAN AND FINISH SAND SMOOTH TO PROVIDE A UNIFORM AND SMOOTH WALL SURFACE READY FOR THE APPLICATION OF FINISH MATERIALS.
  - G. DIMENSIONS LOCATING DOORS OR INTERIOR WINDOWS ARE TO OUTSIDE EDGE OF FRAME UNLESS NOTED OTHERWISE. REFER TO DOOR & WINDOW SHEETS FOR FRAME TYPE, SIZE AND DETAILS.
  - H. REFER TO CIVIL, STRUCTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.

**1 BASEMENT PLAN - BLDG. 80H - RENOVATION PLAN**  
A107 SCALE: 3/32" = 1'-0"



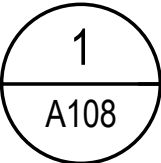
**2 ATTIC PLAN - BLDG. 80H - RENOVATION PLAN**  
A107 SCALE: 3/32" = 1'-0"



		<b>SUBCONSULTANTS</b>		<b>ARCH./ENGINEER OF RECORD</b>	<b>STAMP</b>	<b>Office of Construction and Facilities Management</b>	<b>Drawing Title</b> BUILDING 80H REMOVAL PLAN	<b>Phase</b> 100% SUBMISSION	<b>Project Title</b> UPGRADE STEAM SYSTEMS PATIENT AREAS	<b>Project Number</b> 512A5-21-304
		<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	<b>MORABITO CONSULTANTS, INC.</b> STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	<b>PRIME A/E:</b>  <b>VETERAN DESIGN &amp; CONSTRUCTION INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		<b>Approved:</b>	-	<b>Location</b> VAMC PERRY POINT	<b>Building Number</b> 80H
<b>Revisions:</b>		<b>A. MORTON THOMAS AND ASSOCIATES, INC.</b> CIVIL ENGINEER / LANDSCAPE / SURVEY 800 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545						<b>Issue Date</b> 02/02/2024	<b>Checked</b> EJL	<b>Drawing Number</b> A107
								<b>Drawn</b> EJL		

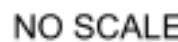


A.	VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS. NOTIFY THE ARCHITECT OF DISCREPANCIES PRIOR TO COMMENCING WORK. EXISTING CONDITIONS THAT WOULD EFFECT THE EXECUTION OF THE WORK MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO COMMENCING WORK.
B.	DIMENSIONS GIVEN ON PLANS ARE FROM FINISHED FACE TO FINISHED FACE UNLESS OTHERWISE NOTED. DIMENSIONS ARE NOT ADJUSTABLE WITHOUT THE APPROVAL OF THE ARCHITECT UNLESS OTHERWISE NOTED.
C.	CONCRETE FINISHING SHALL BE AS REQUIRED TO SUPPORT WALL MOUNTED ITEMS. LOCATE EMENTAL AND COORDINATE BLOCKING PROTECTIONS IN FIELD.
D.	PROVIDE PROTECTION TO EXISTING FINISHES AND/OR MATERIALS. RESTORE TO ORIGINAL CONDITIONS AREAS OR FINISHES DAMAGED BY THE WORK. AT THE EXPENSE OF THE CONTRACTOR, REMOVE MESS OR PROTECTION AT THE END OF THE PROJECT.
E.	ALL SCRATCHES, DENTS, CRACKS, HOLES, OPENINGS, IRREGULARITIES AND/OR DEFECTS IN BOTH EXISTING AND NEW CONSTRUCTION SURFACES ARE TO BE PATCHED TO PROVIDE A UNIFORM AND SMOOTH FINISHED SURFACE. CLEAN AND SAND ALL PATCHES TO MATCH EXISTING FINISH.
F.	REMOVE ALL EXCESS BUILD-UP OF EXISTING AND/OR NEW WALL AND PAINT MATERIALS FROM ALL NEW AND EXISTING WALL SURFACES. CLEAN AND FINISH SAND SMOOTH TO PROVIDE A UNIFORM AND SMOOTH WALL SURFACE READY FOR THE APPLICATION OF FINISH.
G.	DIMENSIONS LOCATING DOORS OR INTERIOR WINDOWS ARE TO OUTSIDE EDGE OF FRAME UNLESS NOTED OTHERWISE. REFER TO DOOR & WINDOW SCHEDULES FOR FRAME TYPE, SIZE, AND DETAILS.
H.	REFER TO CIVIL, STRUCTURAL, FIRE PROTECTION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.



SCALE: 3/32" = 1'-0"

SCALE: 3/32" = 1'-0"





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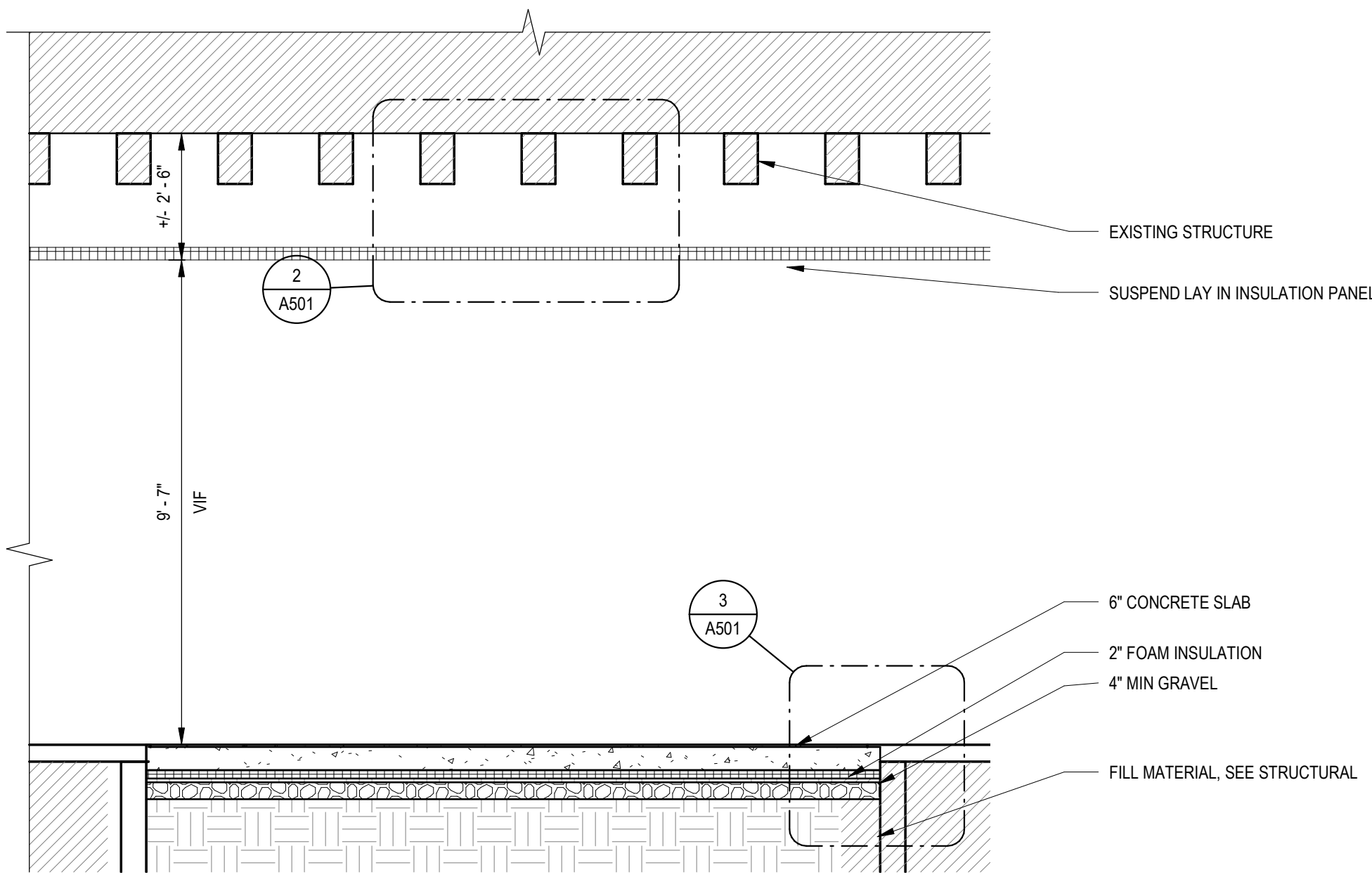
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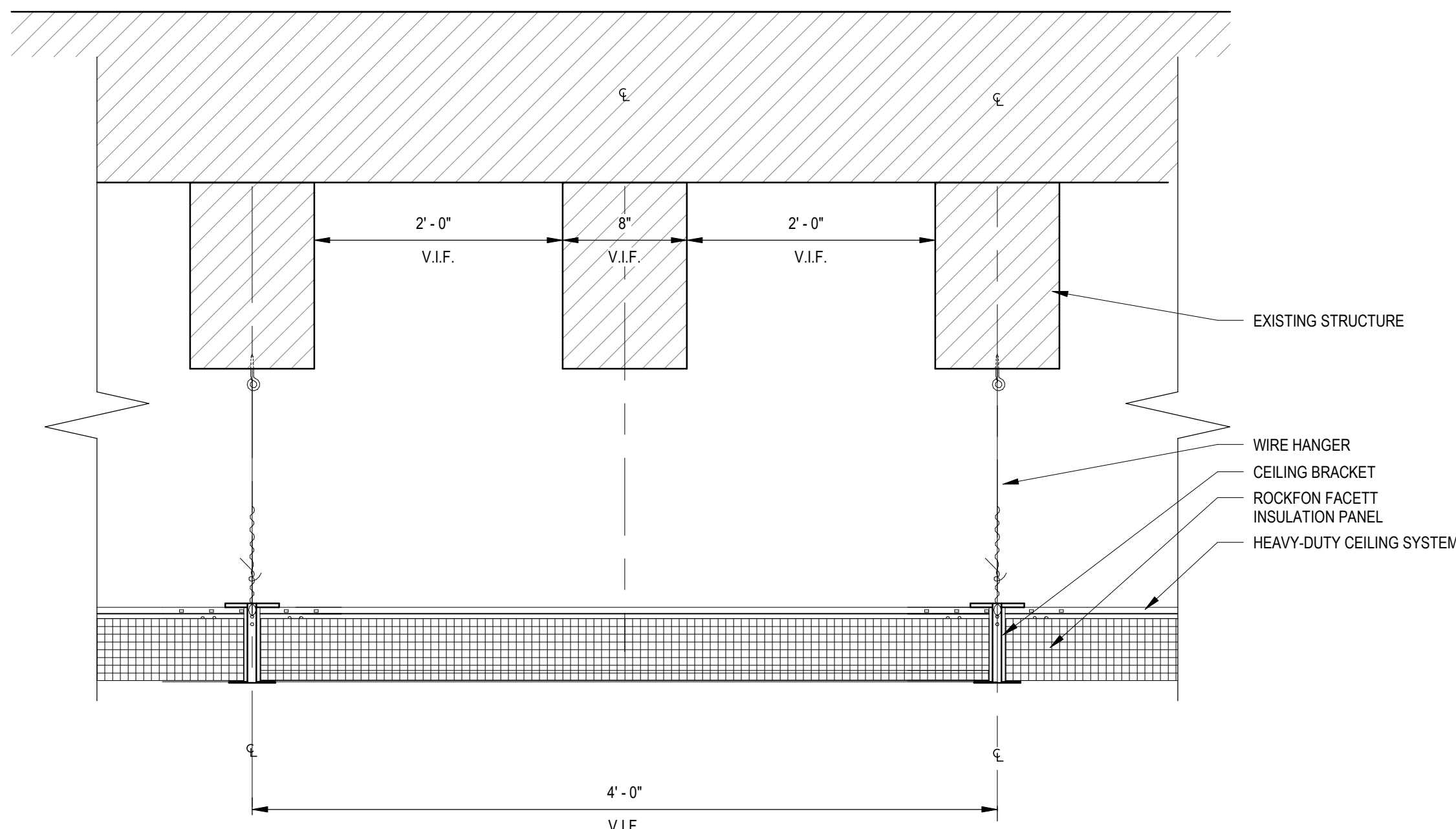
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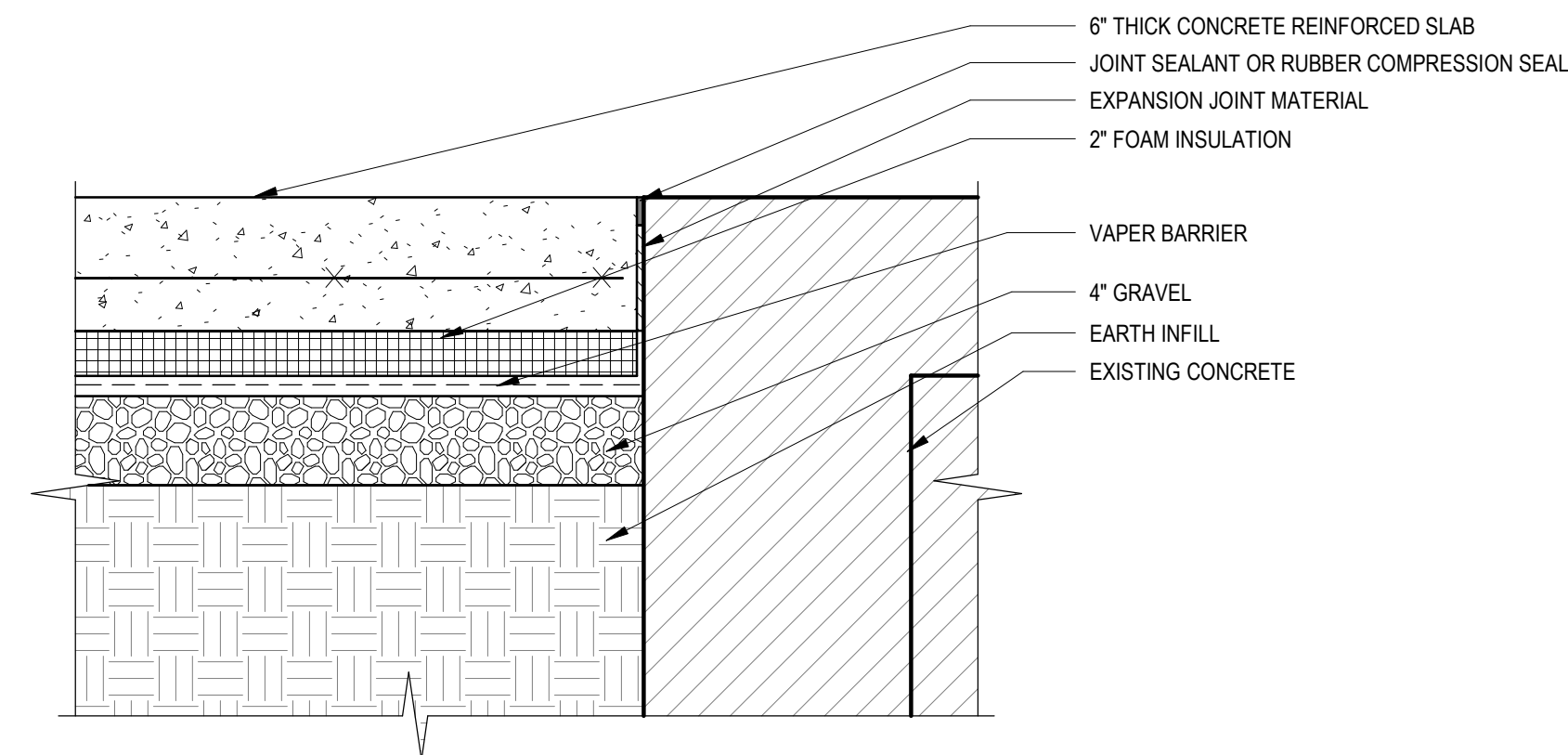
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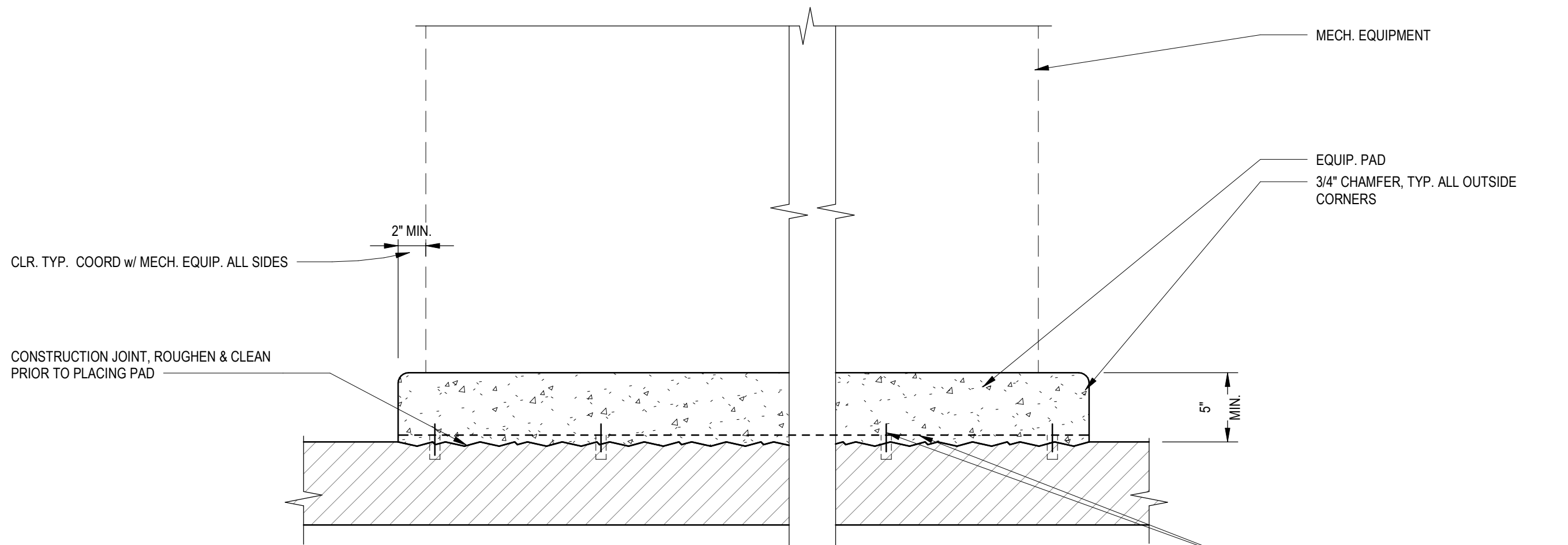
1 SECTION THRU POOL AND CEILING JOIST  
A501 SCALE: 3/8" = 1'-0"



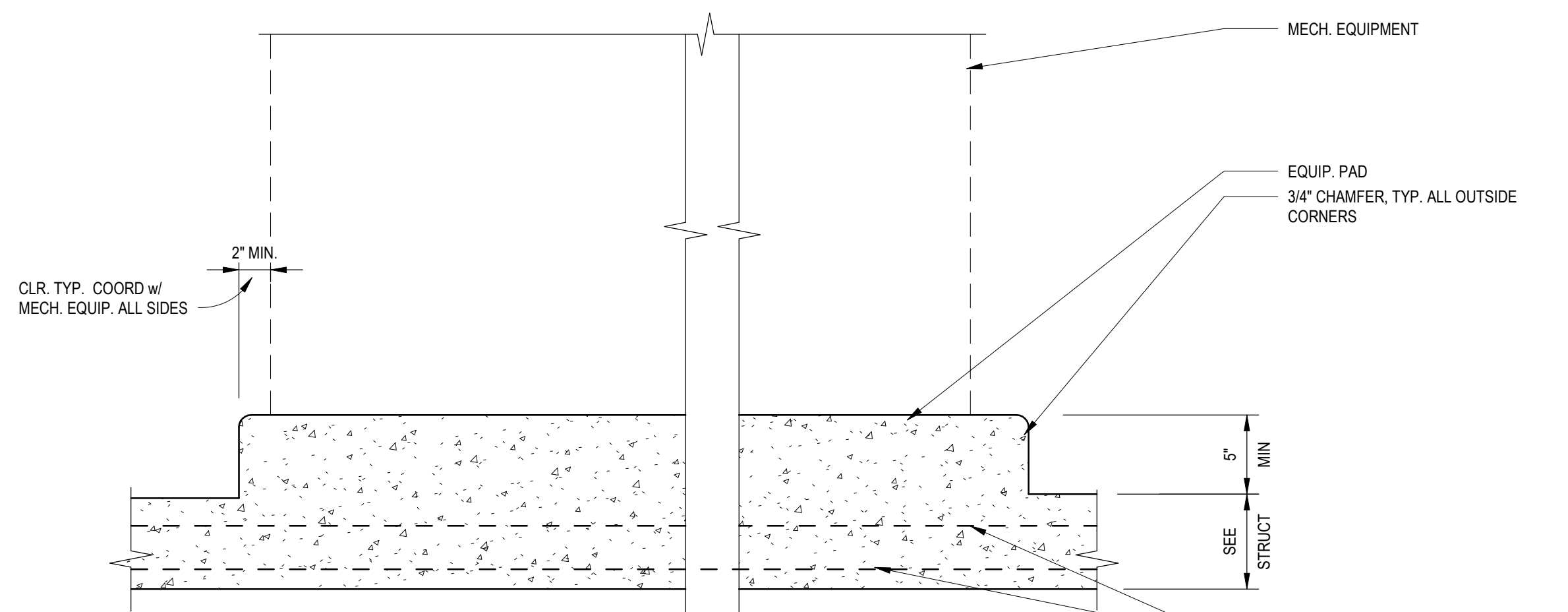
2 SUSPENDED CEILING DETAIL  
A501 SCALE: 1 1/2" = 1'-0"



3 CONCRETE SLAB OVER POOL EDGE DETAIL  
A501 SCALE: 1 1/2" = 1'-0"



4 HOUSEKEEPING PAD DETAIL (POURED ON CONCRETE SLAB)  
A501 SCALE: 1 1/2" = 1'-0"



5 HOUSEKEEPING PAD DETAIL (POURED WITH FLOOR SLAB)  
A501 SCALE: 1 1/2" = 1'-0"

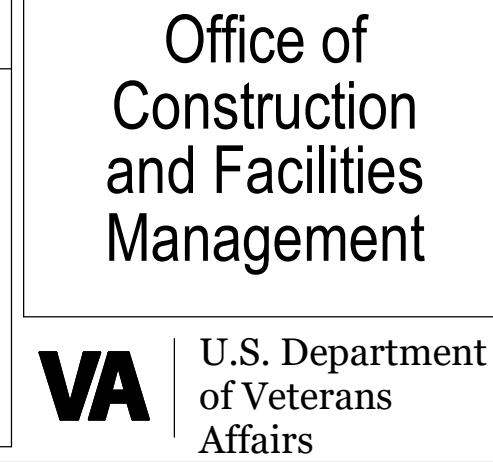
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Revisions:	Date:

SUBCONSULTANTS		
<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0090	<b>MORABITO CONSULTANTS, INC.</b> STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325
<b>A. MORTON THOMAS AND ASSOCIATES, INC.</b> CIVIL ENGINEER (LANDSCAPE)/SURVEY 800 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		

ARCH./ENGINEER OF RECORD
<b>PRIME A/E:</b>  <b>VETERAN DESIGN &amp; CONSTRUCTION INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081



Drawing Title
<b>DETAILS</b>
Approved:

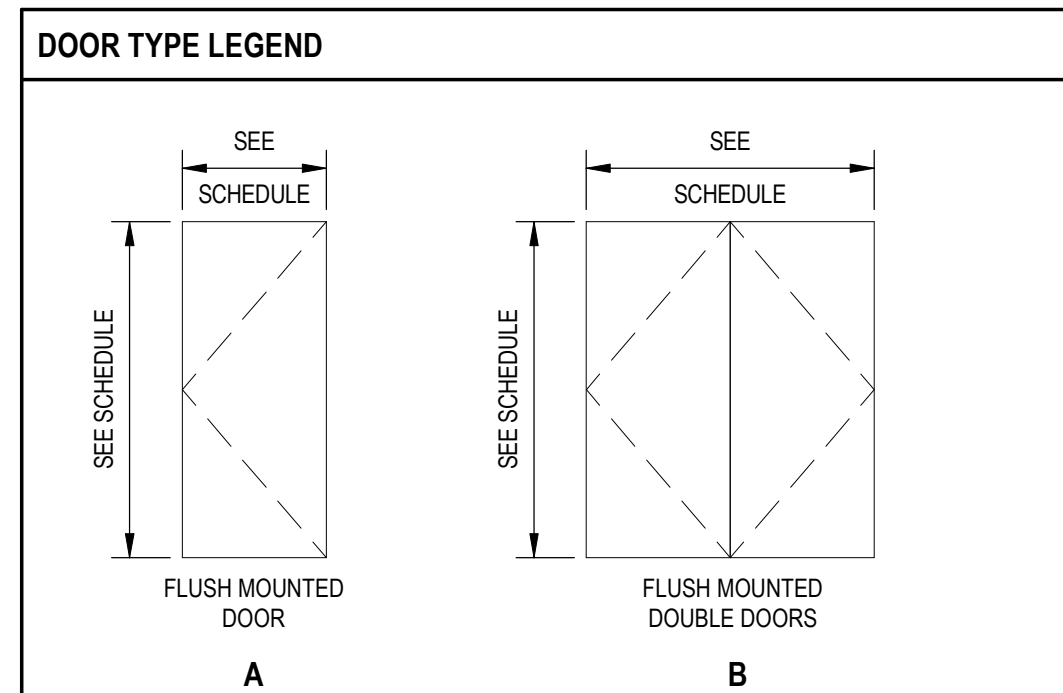
Phase
100% SUBMISSION
-

Project Title		
UPGRADE STEAM SYSTEMS PATIENT AREAS		
Location		
VAMC PERRY POINT		
Issue Date	Checked	Drawn
02/02/2024	EJL	LAA

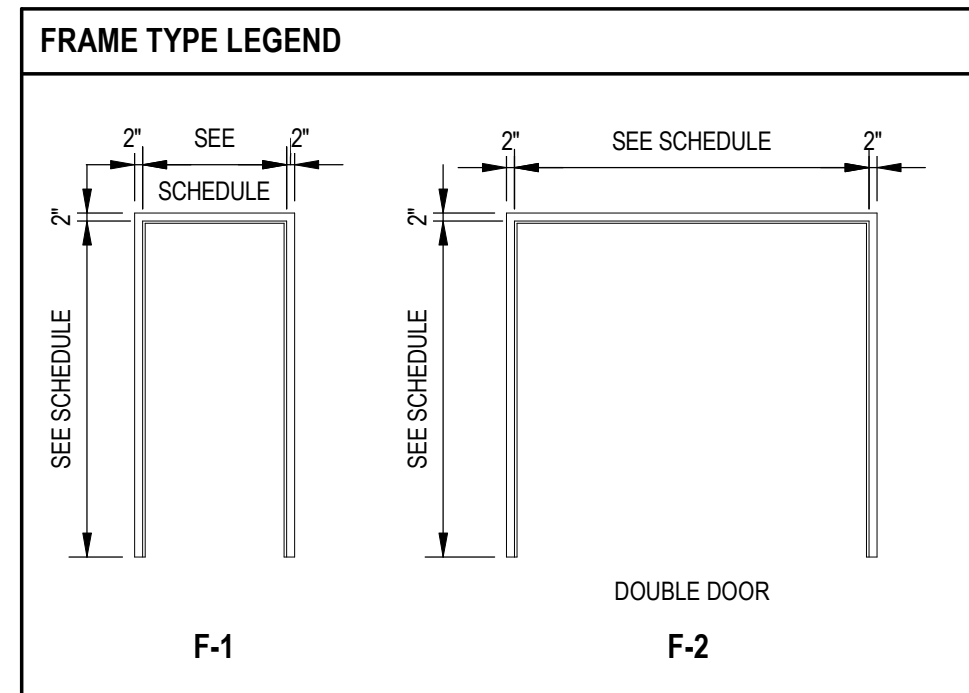
Project Number
512A5-21-304
Building Number
Drawing Number
A501



**NOTE:** HARDWARE GROUPS ARE AS IDENTIFIED PER VA PG-18-14. HARDWARE GROUP NUMBERS SKIP SEQUENCE FOR GROUPS NOT USED IN THIS PROJECT

[illegible]

NOTE: PROVIDE WIRE GLASS AT RATED DOORS



PARTITION TYPE  
FIRE RATING  
UL RATING  
STC RATING BASED ON CONSTRUCTION  
SOUND ATTEN.  
BLANKET SIZE RATING

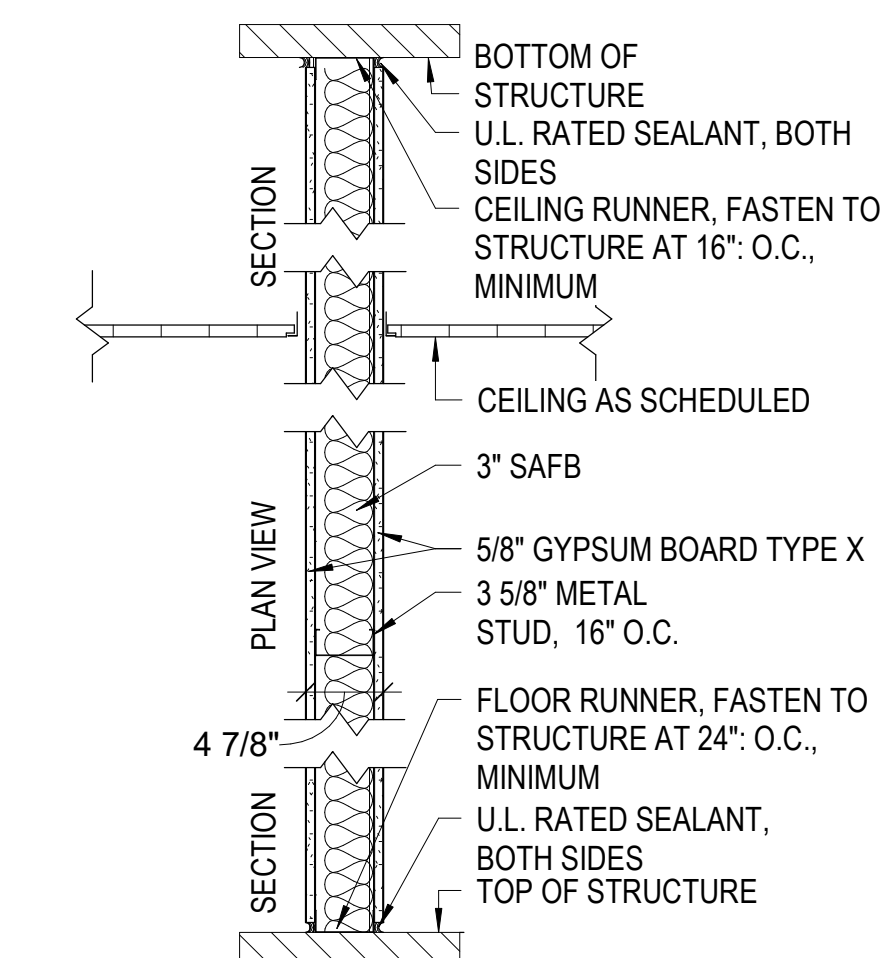
	FIRE	UL	STC	SAB
B1.2	FIRE	UL	STC	SAB
B1.3	FIRE	UL	STC	SAB
B1.4	FIRE	UL	STC	SAB
B1.5	FIRE	UL	STC	SAB

PARTITION TYPES  
ARE THE SAME  
CONSTRUCTION AS  
DRAWN OTHER  
THAN STUD SIZE OR  
OTHERWISE NOTED.

	STUD SIZE
.1	3 5/8"
.2	1 5/8"
.3	2 1/2"
.4	4"
.5	6"

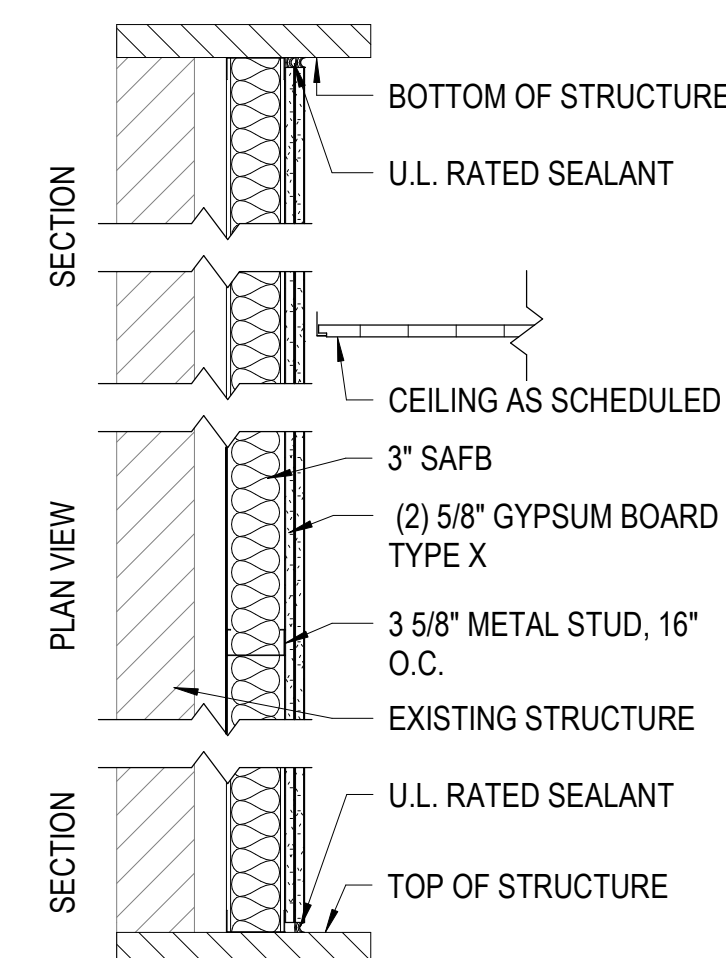
RELATES TO STUD SIZE  
FOR PARTICULAR  
PARTITION TYPE

- NOTES:
1. PROVIDE MOISTURE RESISTANT GYP. BD. ON WALLS & CEILINGS IN ALL TOILET & ON WET WALL IN KITCHEN AND EXAM ROOM.
  2. PROVIDE BLOCKING BEHIND ANY WALL OR CEILING HUNG ITEMS, SUCH AS WALL MOUNTED TVs, GRAB BARS, LIGHTING FIXTURES, DOOR BUMPERS, ETC.
  3. COORDINATE BLOCKING LOCATIONS IN FIELD.



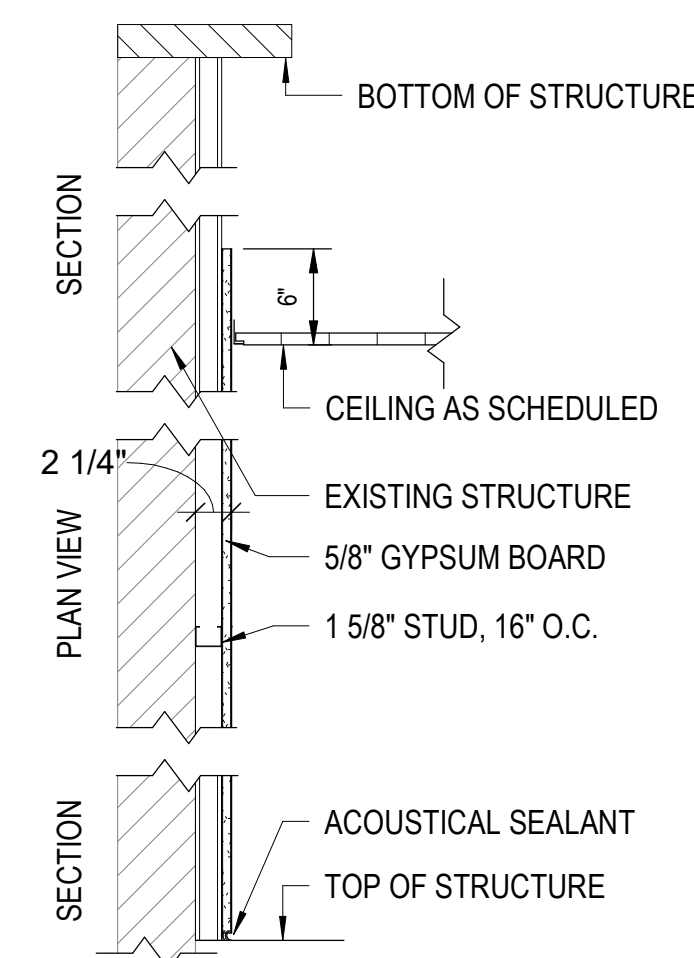
FIRE RESISTANCE RATING = UL DESIGN #U419 - 1 HOUR  
STC RATING = 49

## 1 HOUR PARTITION



FIRE RESISTANCE RATING = UL DESIGN #U419 - 1 HOUR  
STC RATING = 49

### 1 HOUR PARTITION



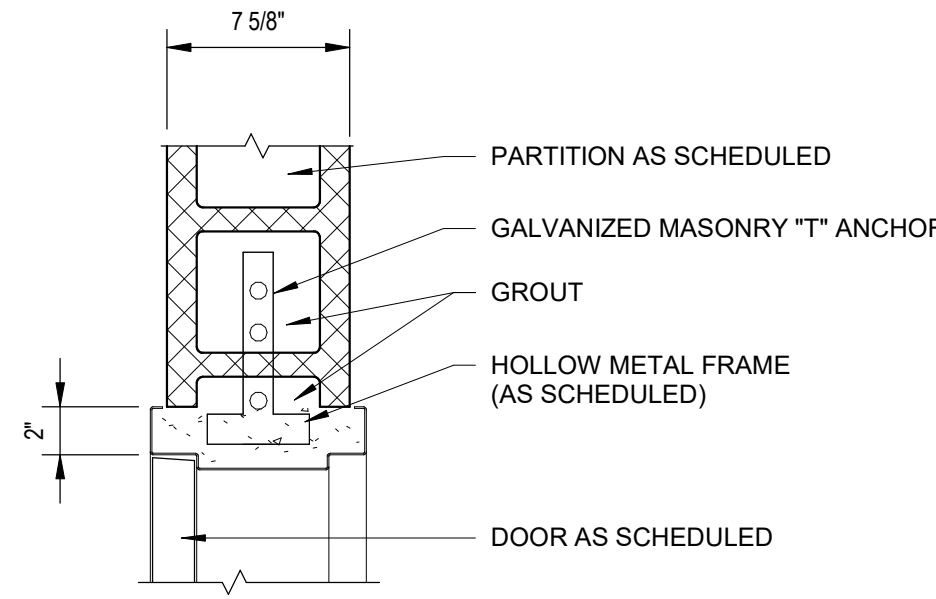
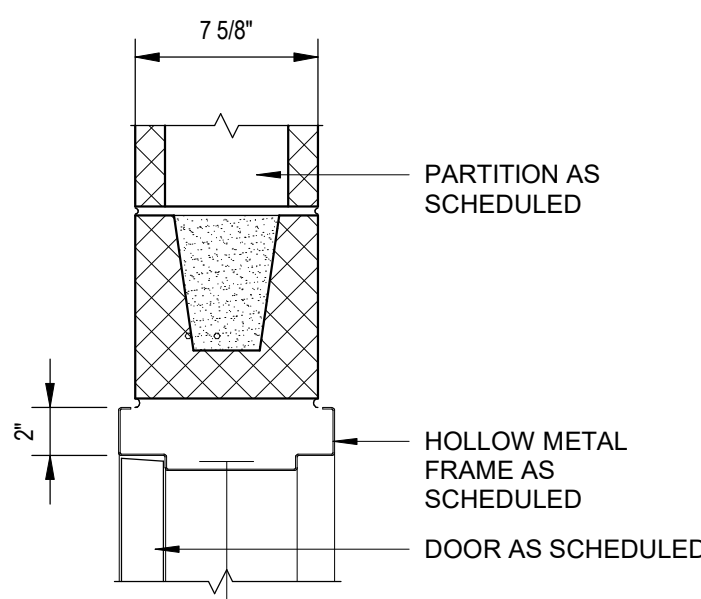
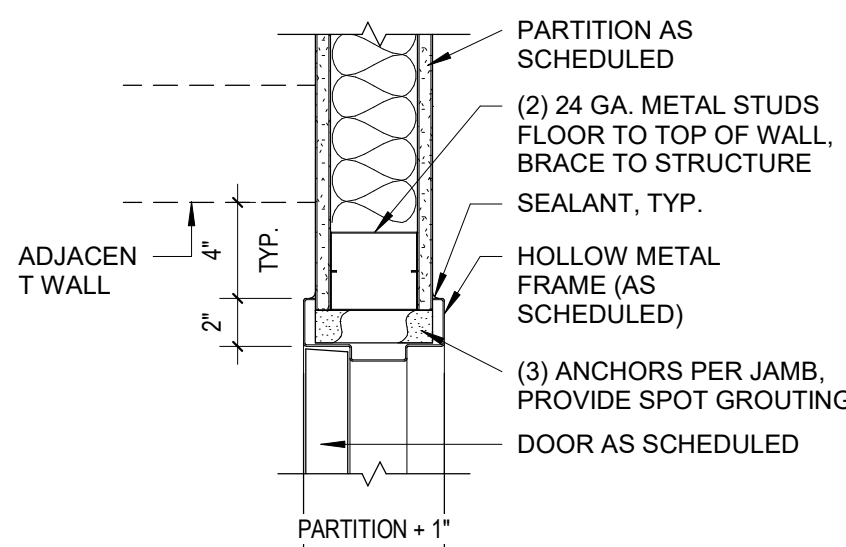
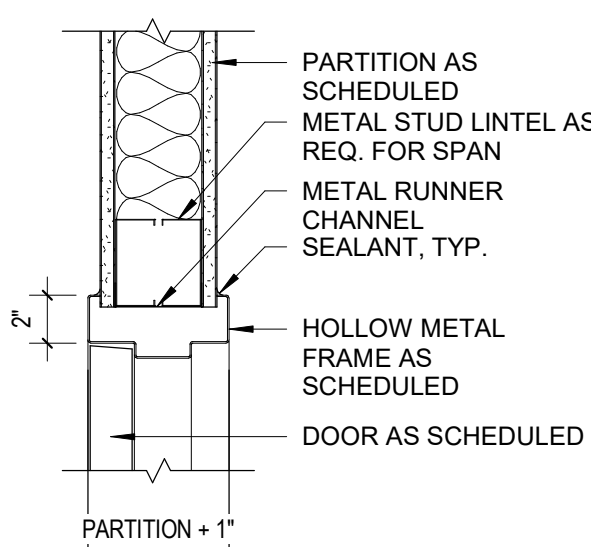
FIRE RESISTANCE RATING = NONE  
STC RATING = NONE

### NON-RATED PARTITION

	FIRE	UL	STC	SAB	NOTES		FIRE	UL	STC	SAB	NOTES		FIRE	UL	STC	SAB	NOTES
B1.2	-N/A	-N/A	STC	SAB	N/A	B1.2	-	-	STC	SAB		D1.2	-	U---	-	-	USE 3 5/8" METAL STUD
B1.3	-1HR	-U419	STC	SAB	USE 1/2" GYP. BD.	B1.3	-	-	STC	SAB		D1.3	-	U---	-	-	USE 2 1/2" METAL STUD
B1.4	-1HR	-U419	STC	SAB		B1.4	-	-	STC	SAB		D1.4	-	U---	-	-	USE 4" METAL STUD
B1.5	-N/A	-N/A	STC	SAB	N/A	B1.5	-	-	STC	SAB		D1.5	-	U---	-	-	USE 7/8 HAT CHANNEL

## 1 PARTITION TYPES

A601 SCALE: 1" = 1'-0"



## 2 HM HEAD DETAIL

A601 SCALE: 1 1/2" = 1'-0"

### 3 HM JAMB DETAIL

( A601 ) SCALE: 1 1/2" = 1'-0"



4 HM HEAD-MASONRY DETAIL

A601 SCALE: 1 1/2" = 1'-0"

5 HW JAMB-MASONRY DETAIL

A601 SCALE: 1 1/2" = 1'-0"

[illegible]

SUBCONSULTANTS			ARCH./ENGINEER OF RECORD	STAMP
<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 10000 WOODBURN DRIVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0000	<b>MORABITO CONSULTANTS, INC.</b> STRUCTURAL ENGINEERING 1802 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENIST 1850 CHABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	<b>PRIME A/E:</b>  <b>VETERAN DESIGN &amp; CONSTRUCTION, INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081	

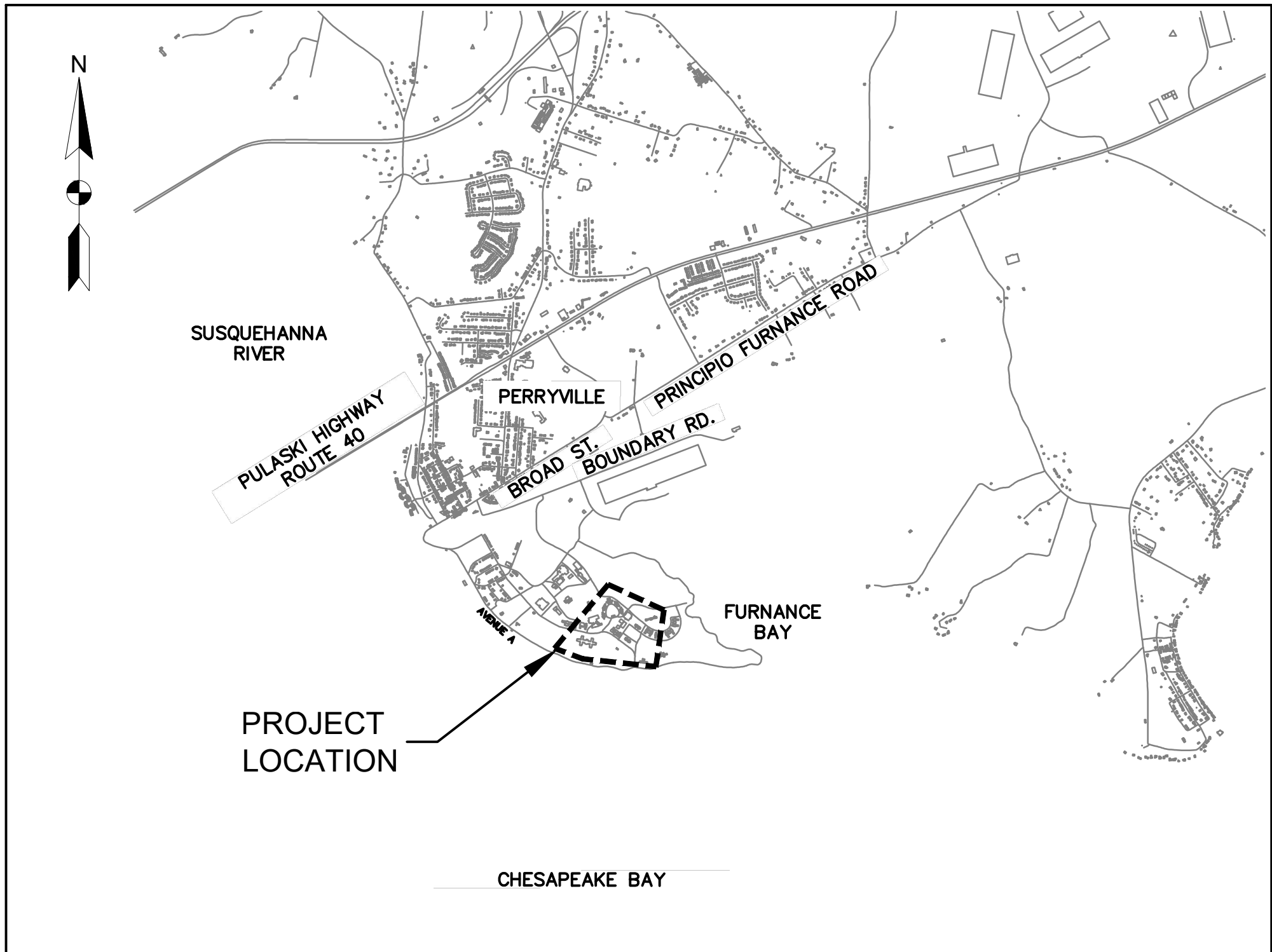
<div>Office of Construction and Facilities Management</div> <div><div><div>VA</div><div>U.S. Department of Veterans</div></div></div>	<div>Drawing Title</div> <div>SCHEDULES &amp; DETAILS</div>	<div>Phase</div> <div>100% SUBMISSION</div>	<div>Project Title</div> <div>UPGRADE STEAM SYSTEMS PATIENT AREAS</div>			<div>Project Number</div> <div>512A5-21-304</div>
	<div>Approved:</div>	<div>-</div>	<div>Location</div> <div>VAMC PERRY POINT</div>			<div>Building Number</div>
			<div>Issue Date</div> <div>02/02/2024</div>	<div>Checked</div> <div>EJL</div>	<div>Drawn</div> <div>LA</div>	<div>Drawing Number</div> <div>A601</div>



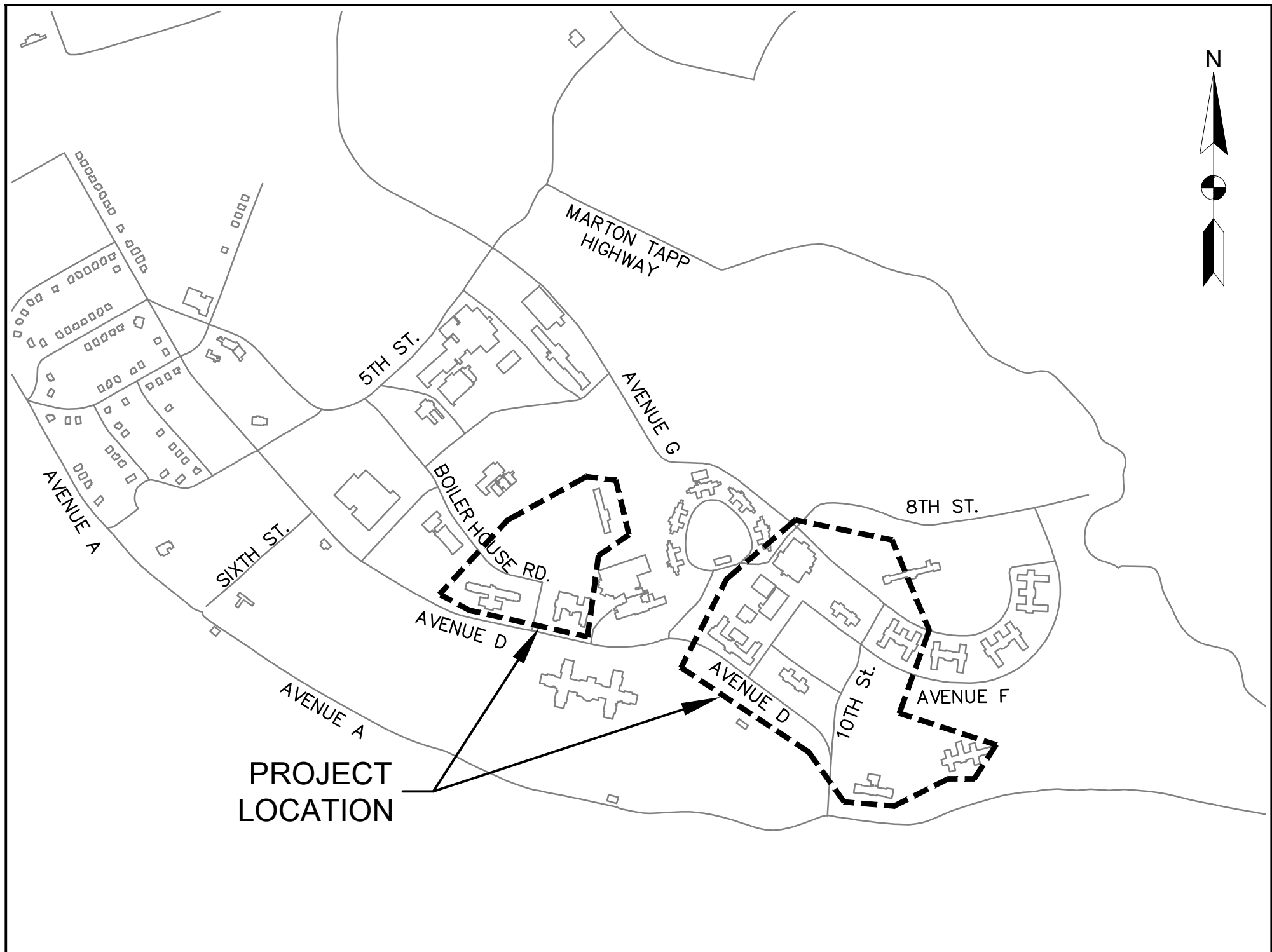
NRM PROJECT NO. 512A5-21-304  
UPGRADE STEAM SYSTEM PATIENT AREAS

MDE # 23-SF-0108

PERRY POINT VA MEDICAL CENTER  
361 BOILER HOUSE ROAD  
PERRY POINT, MD 21902



1 VICINITY MAP  
SCALE: 1"=1000'



2 LOCATION MAP  
SCALE: 1"=200'

MDE GENERAL PERMIT:

PER THE MARYLAND GENERAL PERMIT FOR DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY (20-CP) AND ANY REVISIONS THERETO, BOTH THE OWNER AS AND OPERATOR AND THE CONTRACTOR AS AN OPERATOR WILL EACH BE REQUIRED TO OBTAIN COVERAGE UNDER GENERAL PERMIT 20-CP.

THE CONTRACTOR IS REQUIRED FILE FOR THE PERMIT AND PAY ALL REQUIRED APPLICATION COSTS ASSOCIATED WITH THE PERMIT.

THE CONTRACTOR WILL BE REQUIRED TO UPDATE AND FINALIZE THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THAT HAS INITIALLY BEEN DEVELOPED BY THE GOVERNMENT. THIS SWPPP IS A SUBMISSION REQUIREMENT FOR THE 20-CP GENERAL PERMIT.

THE CONTRACTOR WILL BE RESPONSIBLE AND ACCOUNTABLE FOR INSPECTION, REPORTING AND ALL OTHER OBLIGATIONS AS OUTLINED IN THE SWPPP.

OWNER'S / DEVELOPER'S CERTIFICATION

I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION, AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT. I/WE HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY APPROPRIATE INSPECTION AND ENFORCEMENT AUTHORITY OR THE STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT. I/WE HEREBY CERTIFY THAT STORMWATER MANAGEMENT FACILITIES WILL BE MAINTAINED IN ACCORDANCE WITH APPROVED PLANS.

DATE \_\_\_\_\_ OWNER/DEVELOPER SIGNATURE \_\_\_\_\_  
RESPONSIBLE PERSONNEL CERTIFICATION NO. \_\_\_\_\_ PRINTED NAME AND TITLE \_\_\_\_\_

DESIGN CERTIFICATION:

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2000 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II INCLUDING SUPPLEMENTS, THE ENVIRONMENT ARTICLE SECTIONS 4-101 THROUGH 116 AND SECTIONS 4-201 AND 215, AND THE CODE OF MARYLAND REGULATIONS (COMAR) 26.17.01 AND COMAR 26.17.02 FOR EROSION AND SEDIMENT CONTROL AND STORMWATER MANAGEMENT, RESPECTIVELY.



DATE 12/18/2023 DESIGNER'S SIGNATURE \_\_\_\_\_  
MD REGISTRATION NO. 21740 JONATHAN BLASCO, PE  
(P.E.) R.L.S., R.L.A. OR R.A. (CIRCLE ONE) PRINTED NAME

PE CERTIFICATION:

I HEREBY, CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO.21740. EXPIRATION DATE:10-8-2025

DATE: 12/18/2023 SIGNATURE \_\_\_\_\_

SHEET LIST TABLE	
DWG NO. CIVIL	SHEET TITLE
C001	COVER SHEET
C002	OVERALL PLAN
VF101	EXISTING CONDITIONS PLAN - WEST
VF102	EXISTING CONDITIONS PLAN - EAST
CG101	EROSION AND SEDIMENT CONTROL PLAN
CG102	EROSION AND SEDIMENT CONTROL PLAN
CG103	EROSION AND SEDIMENT CONTROL PLAN
CG501	EROSION AND SEDIMENT CONTROL NOTES
CG502	EROSION AND SEDIMENT CONTROL NOTES
CU101	UTILITY PLAN - AREA 1
CU102	UTILITY PLAN - AREA 2
CU103	UTILITY PLAN - AREA 3
CU104	UTILITY PLAN - AREA 4
CU105	UTILITY PLAN - AREA 5
CU301	UTILITY PROFILES
CU501	SITE DETAILS
LP101	LANDSCAPING PLAN

		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title MDE INFORMATION SHEET		Phase 100% SUBMISSION		Project Title UPGRADE STEAM SYSTEM PATIENT AREAS		Project Number 512A5-21-304				
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377		APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325		PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081				Approved: Project Director		-		Location VAMC PERRY POINT		Drawing Number C001		
Revisions:		Date:								VA U.S. Department of Veterans Affairs						Issue Date 2-2-2024		Checked BJ		Drawn JB	











A

B

C

D

E

F

A

B

C

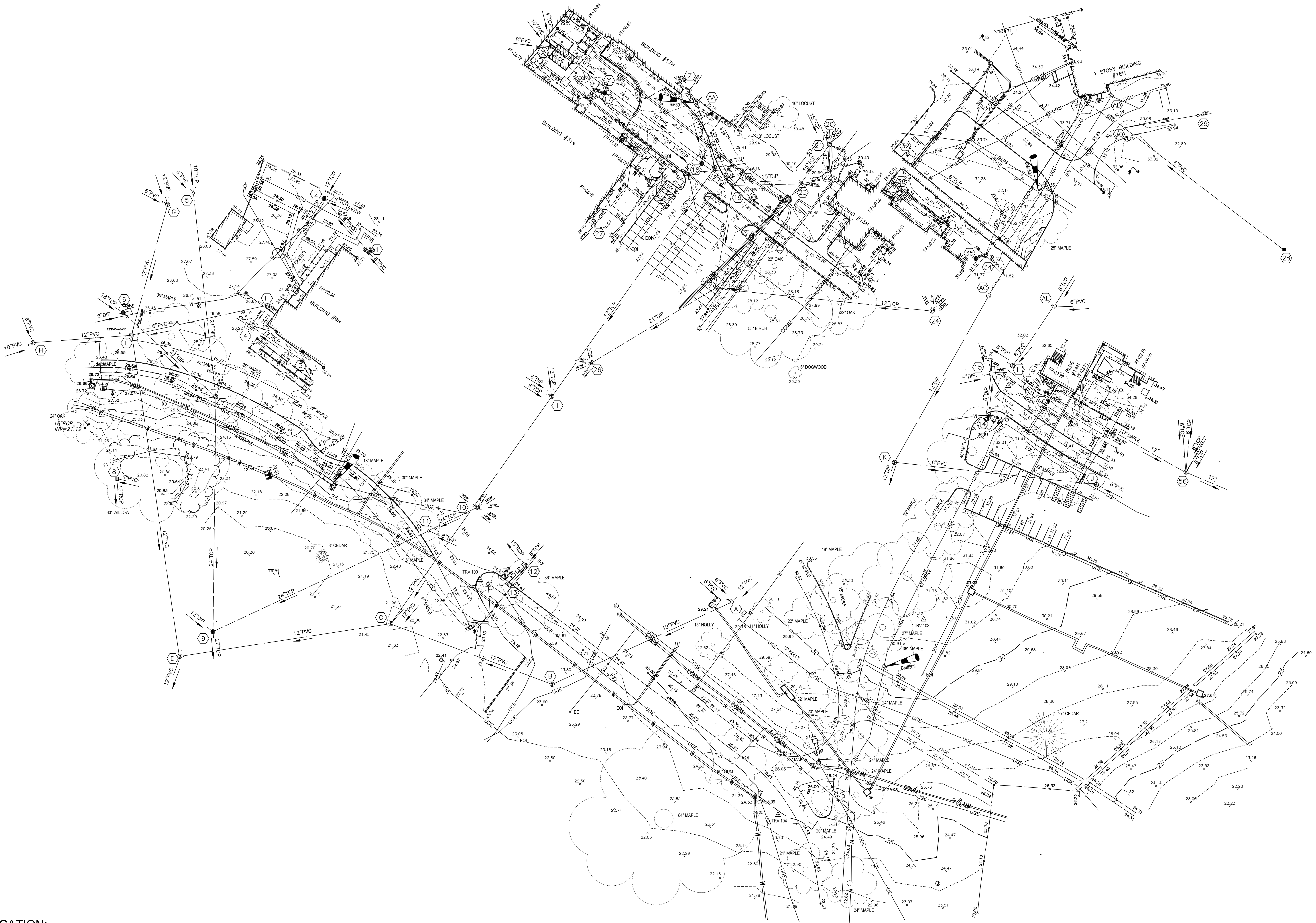
D

E

F

LEGEND:

- ROUND STORM DRAIN
- YARD INLET
- ROOF DRAIN
- STORM MANHOLE
- VENT
- SINGLE POST SIGN
- ELECTRIC OUTLET
- LIGHT POLE
- EMERGENCY CALL BOX
- ☆ LAMP
- ELECTRIC JUNCTION BOX
- POWER POLE
- SANITARY SEWER MANHOLE
- CLEAN OUT
- WATER VALVE
- FIRE HYDRANT
- UNKNOWN UTILITY MANHOLE
- COMMUNICATION MANHOLE
- WATER METER
- ELECTRIC MANHOLE
- WATER MANHOLE
- POST INDICATOR VALVE
- TRASH CAN
- STEAM MANHOLE
- SATELLITE DISH
- FLY
- △ TRAVERSE
- BENCHMARK
- CURB AND GUTTER
- OHE OVERHEAD ELECTRIC
- W UNDERGROUND WATER LINE PAINT
- COMM UNDERGROUND COMMUNICATION LINE PAINT
- UGU UNDERGROUND UNKNOWN UTILITY LINE PAINT
- UGE UNDERGROUND ELECTRIC LINE PAINT
- UNDERGROUND STEAM LINE PAINT
- RAIL
- WOOD FENCE
- CHAINLINK FENCE
- FF FINISH FLOOR ELEVATION
- BUILDING
- FX EXISTING

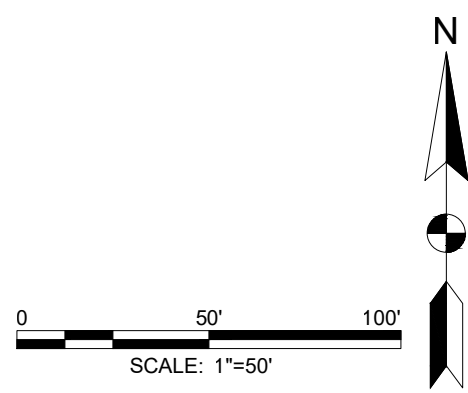



PE CERTIFICATION:

I HEREBY, CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND, LICENSE NO.21740, EXPIRATION DATE:10-8-2025

DATE: 12/18/2023

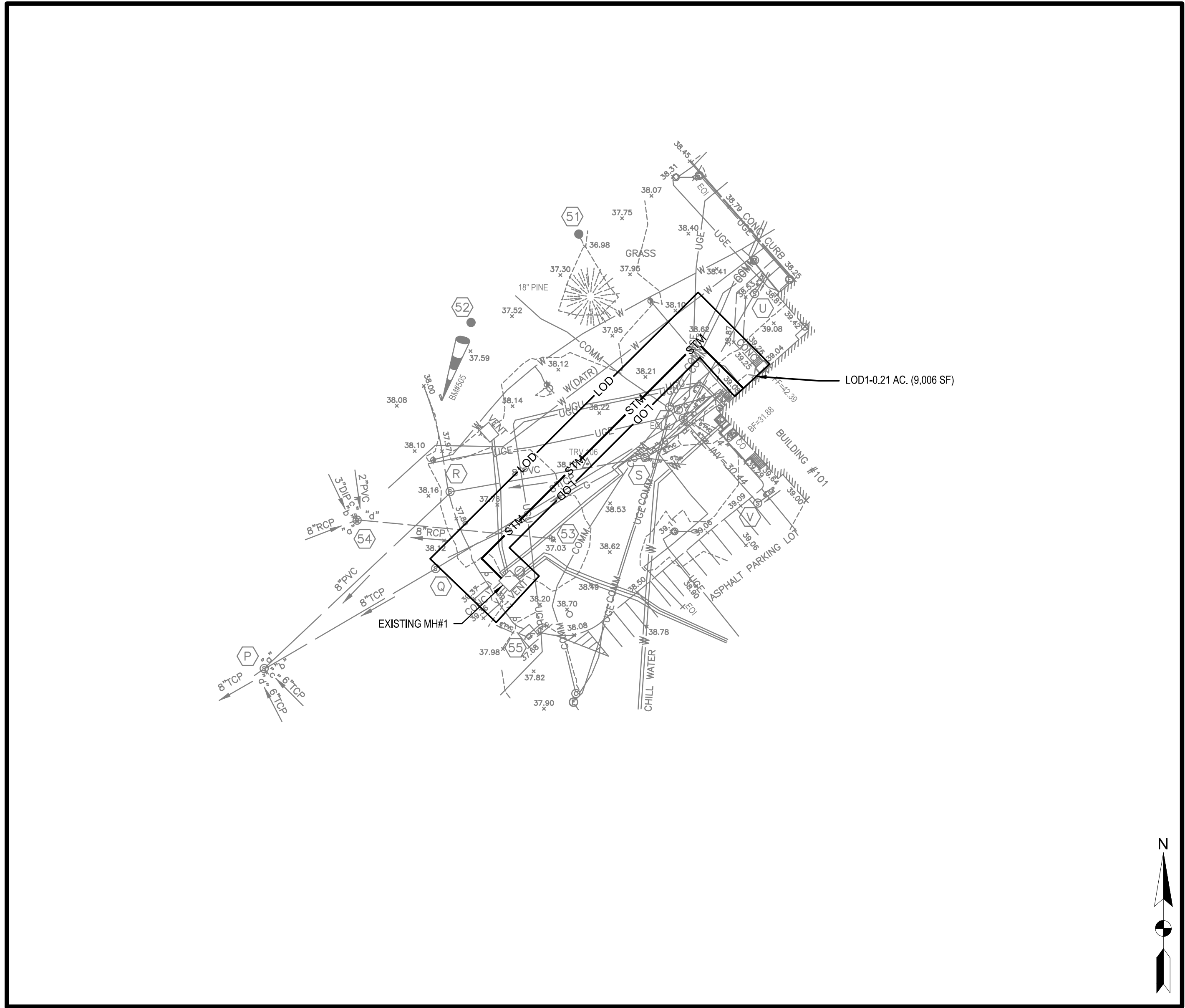
*Signature*



		SUBCONSULTANTS			ARCH/ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management  VA U.S. Department of Veterans Affairs	EXISTING CONDITIONS PLAN - EAST (AREAS 3 THRU 5)		100% SUBMISSION		UPGRADE STEAM SYSTEM PATIENT AREAS			512A5-21-304			
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080  A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE/ SURVEY) 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377			APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325			<div>PRIME A/E:  VETERAN DESIGN &amp; CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081</div>							Building Number		
Revisions:		Date:								Approved: Project Director				Location VAMC PERRY POINT			Drawing Number			
																	VF102			
														Issue Date 2-2-2024			Checked BJ			
														Drawn JB						



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1 AREA 1 - BLDG #101 to MH#1  
SCALE: 1"=50'



2 AREA 2 - BLDG 19H TO 80H, BLDG 19H TO 20H  
SCALE: 1"=50'

EROSION/SEDIMENT CONTROL LEGEND	
	LIMITS OF DISTURBANCE
	NEW STEAM PIPING
	TREE PROTECTION FENCE

NOTE TO CONTRACTOR:	
1.	EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED.
2.	THIS PLAN IS FOR EROSION AND SEDIMENT CONTROL ONLY.

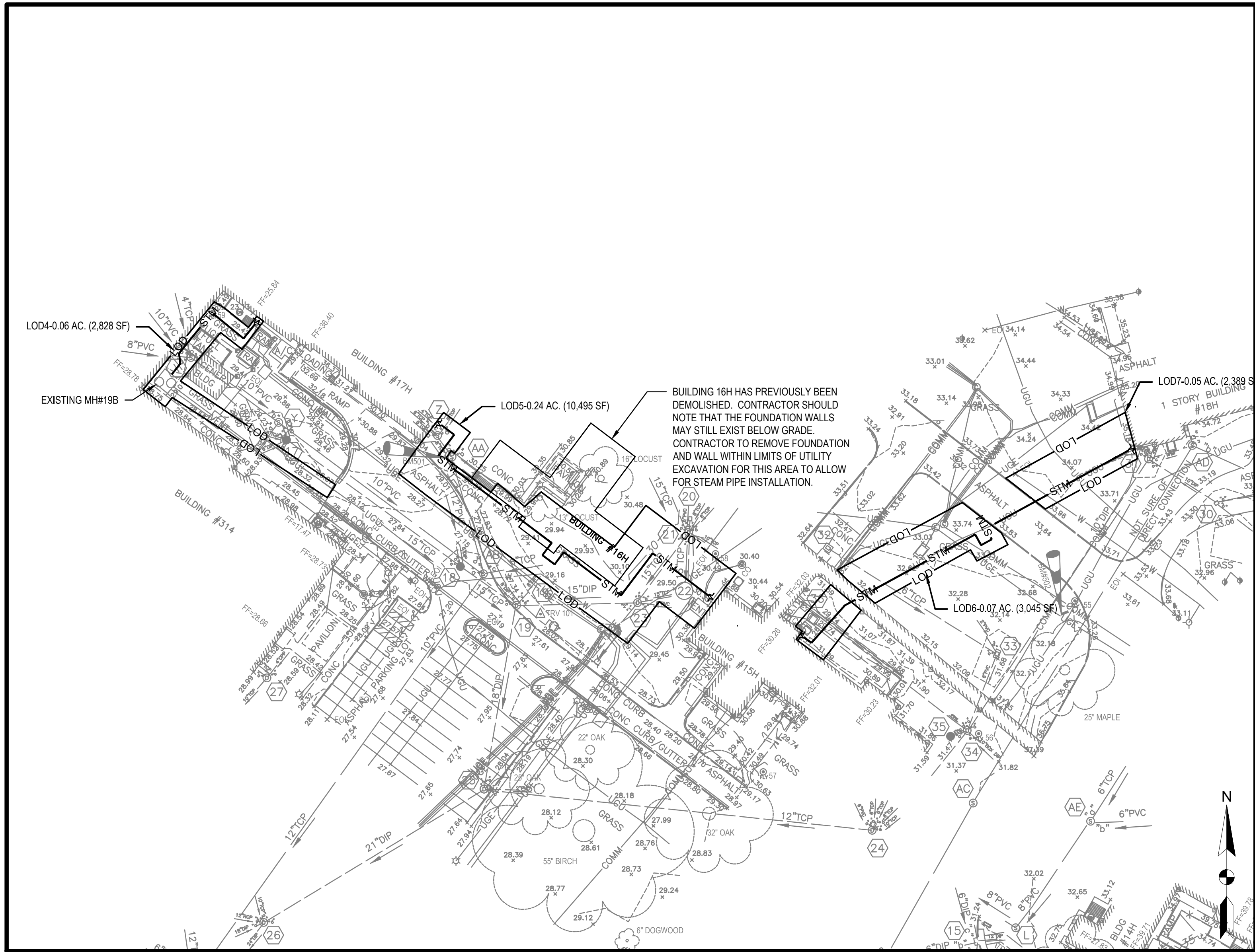
SEDIMENT CONTROL NOTES	
1.	SEE SHEETS CG-501 AND CG-502 FOR SEDIMENT CONTROL NOTES AND SPECIFICATIONS.
2.	SEE EROSION CONTROL NOTE #8 ON SHEET CG-501 FOR UTILITY CONSTRUCTION.
3.	NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
4.	NO ERODIBLE MATERIALS SHALL BE STORED WITHIN THE STAGING/STORAGE AREAS. NO DISTURBANCE IS ALLOWED IN STAGING/STORAGE AREA.
5.	UPSTREAM/OFF-SITE RUNOFF WHICH COLLECTS IN OPEN TRENCH SECTIONS SHALL BE PUMPED (DEWATERED) INTO A MDE STANDARD FILTER BAG AND DISCHARGED TO THE EXISTING STORM DRAIN SYSTEM.
6.	TRENCHING OF PAVED AREAS IS TO BE STABILIZED AND COVERED WITH STEEL PLATES AT THE END OF EACH WORKING DAY.
7.	PRIOR TO VEHICLES LEAVING THE SITE, WHEELS SHALL BE CLEANED OR WASHED TO REMOVE SEDIMENT. ALL SEDIMENT SPILLED, DROPPED OR TRACKED ONTO ROAD MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING OR SWEEPING. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS TO AN APPROVED SEDIMENT CONTROL DEVICE.

SEQUENCE OF CONSTRUCTION	
1.	CONTRACT THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AT (410) 537-3510 AT LEAST SEVEN (7) DAYS PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY.
2.	HOLD PRE-CONSTRUCTION MEETING UNLESS WAIVED BY MDE.
3.	PROCEED WITH CONSTRUCTION. CONTRACTOR TO FOLLOW NOTE #8 ON SHEET CG-501 FOR STEAM LINE INSTALLATION. CONTRACTOR TO PROVIDE SAME DAY STABILIZATION FOR DISTURBED AREAS. CONTRACTOR TO STABILIZE DISTURBED AREAS WITH 4" TOPSOIL, SEED, AND MULCH.
4.	RESTORE ALL DISTURBED AREAS TO EXISTING CONDITIONS.
5.	ONCE ALL CONSTRUCTION IS COMPLETE, WITH THE APPROVAL FROM THE MDE INSPECTOR, REMOVE ALL EROSION CONTROL MEASURES AND IMMEDIATELY STABILIZE THE AREA DISTURBED BY THEIR REMOVAL.

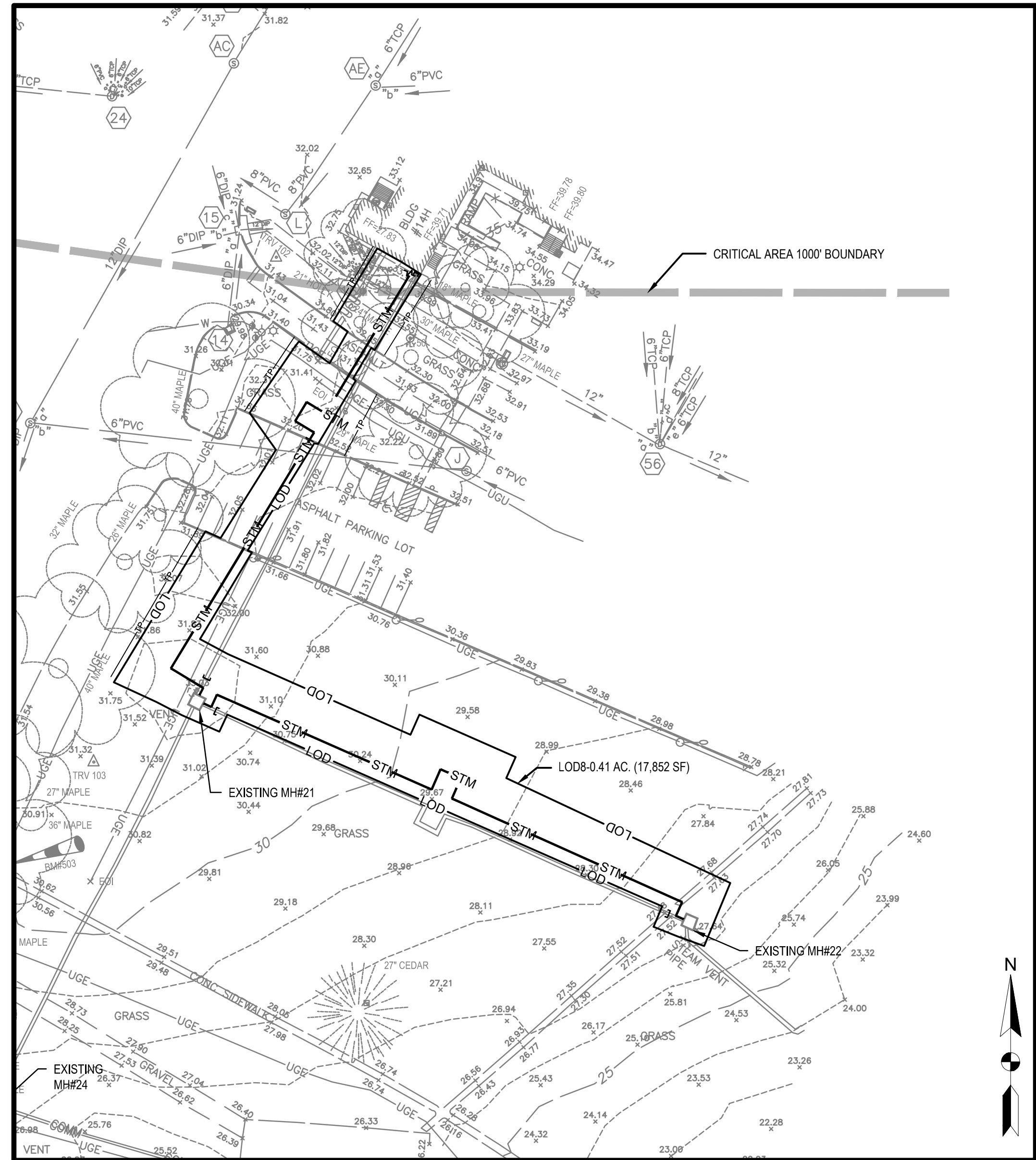
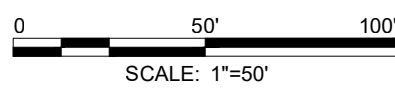
		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management  VA U.S. Department of Veterans Affairs	Drawing Title	Phase	Project Title	Project Number
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS MORABITO CONSULTANTS, INC. APEX COMPANIES, LLC			PRIME A/E:			EROSION AND SEDIMENT CONTROL PLAN - AREA 1 AND 2	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS	512A5-21-304
		A. MORTON THOMAS AND ASSOCIATES, INC.						Approved: Project Director	-	Location	Drawing Number
		CIVIL ENGINEER (LANDSCAPE/ SURVEY								VAMC PERRY POINT	CG101
		7100 KING FARM BOULEVARD, 3RD FLOOR								Issue Date	Checked
Revisions:		Date:							2-2-2024	BJ	JB



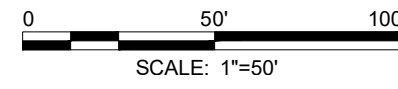
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3 AREA 3 - BLDG 17H TO 15H, 15H TO 18H  
SCALE: 1"=50'



4 AREA 4 - BLDG 14H TO MH#22  
SCALE: 1"=50'



#### EROSION/SEDIMENT CONTROL LEGEND

- LOD — LIMITS OF DISTURBANCE  
— STM — NEW STEAM PIPING  
— TP — TP — TREE PROTECTION FENCE

#### NOTE TO CONTRACTOR:

- EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED.
- THIS PLAN IS FOR EROSION AND SEDIMENT CONTROL ONLY.

#### SEDIMENT CONTROL NOTES



- SEE SHEETS CG-501 AND CG-502 FOR SEDIMENT CONTROL NOTES AND SPECIFICATIONS.
- SEE EROSION CONTROL NOTE #8 ON SHEET CG-501 FOR UTILITY CONSTRUCTION.
- NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
- NO ERODIBLE MATERIALS SHALL BE STORED WITHIN THE STAGING/STORAGE AREAS. NO DISTURBANCE IS ALLOWED IN STAGING/STORAGE AREA.
- UPSTREAM/OFF-SITE RUNOFF WHICH COLLECTS IN OPEN TRENCH SECTIONS SHALL BE PUMPED (DEWATERED) INTO A MDE STANDARD FILTER BAG AND DISCHARGED TO THE EXISTING STORM DRAIN SYSTEM.
- TRENCHING OF PAVED AREAS IS TO BE STABILIZED AND COVERED WITH STEEL PLATES AT THE END OF EACH WORKING DAY.
- PRIOR TO VEHICLES LEAVING THE SITE, WHEELS SHALL BE CLEANED OR WASHED TO REMOVE SEDIMENT. ALL SEDIMENT SPILLED, DROPPED OR TRACKED ONTO ROAD MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING OR SWEEPING. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS TO AN APPROVED SEDIMENT CONTROL DEVICE.

#### SEQUENCE OF CONSTRUCTION

- CONTRACT THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AT (410) 537-3510 AT LEAST SEVEN (7) DAYS PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY.
- HOLD PRE-CONSTRUCTION MEETING UNLESS WAIVED BY MDE.
- PROCEED WITH CONSTRUCTION. CONTRACTOR TO FOLLOW NOTE #8 ON SHEET CG-501 FOR STEAM LINE INSTALLATION. CONTRACTOR TO PROVIDE SAME DAY STABILIZATION FOR DISTURBED AREAS. CONTRACTOR TO STABILIZE DISTURBED AREAS WITH 4" TOPSOIL, SEED, AND MULCH.
- RESTORE ALL DISTURBED AREAS TO EXISTING CONDITIONS.
- ONCE ALL CONSTRUCTION IS COMPLETE, WITH THE APPROVAL FROM THE MDE INSPECTOR, REMOVE ALL EROSION CONTROL MEASURES AND IMMEDIATELY STABILIZE THE AREA DISTURBED BY THEIR REMOVAL.

Revisions:	Date:

SUBCONSULTANTS		
DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325
A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		

ARCH/ENGINEER OF RECORD	STAMP
PRIME A/E:  VETERAN DESIGN & CONSTRUCTION, INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081	

Office of Construction and Facilities Management  VA U.S. Department of Veterans Affairs
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Drawing Title EROSION AND SEDIMENT CONTROL PLAN - AREA 3 AND 4
Approved: Project Director

Phase 100% SUBMISSION
-

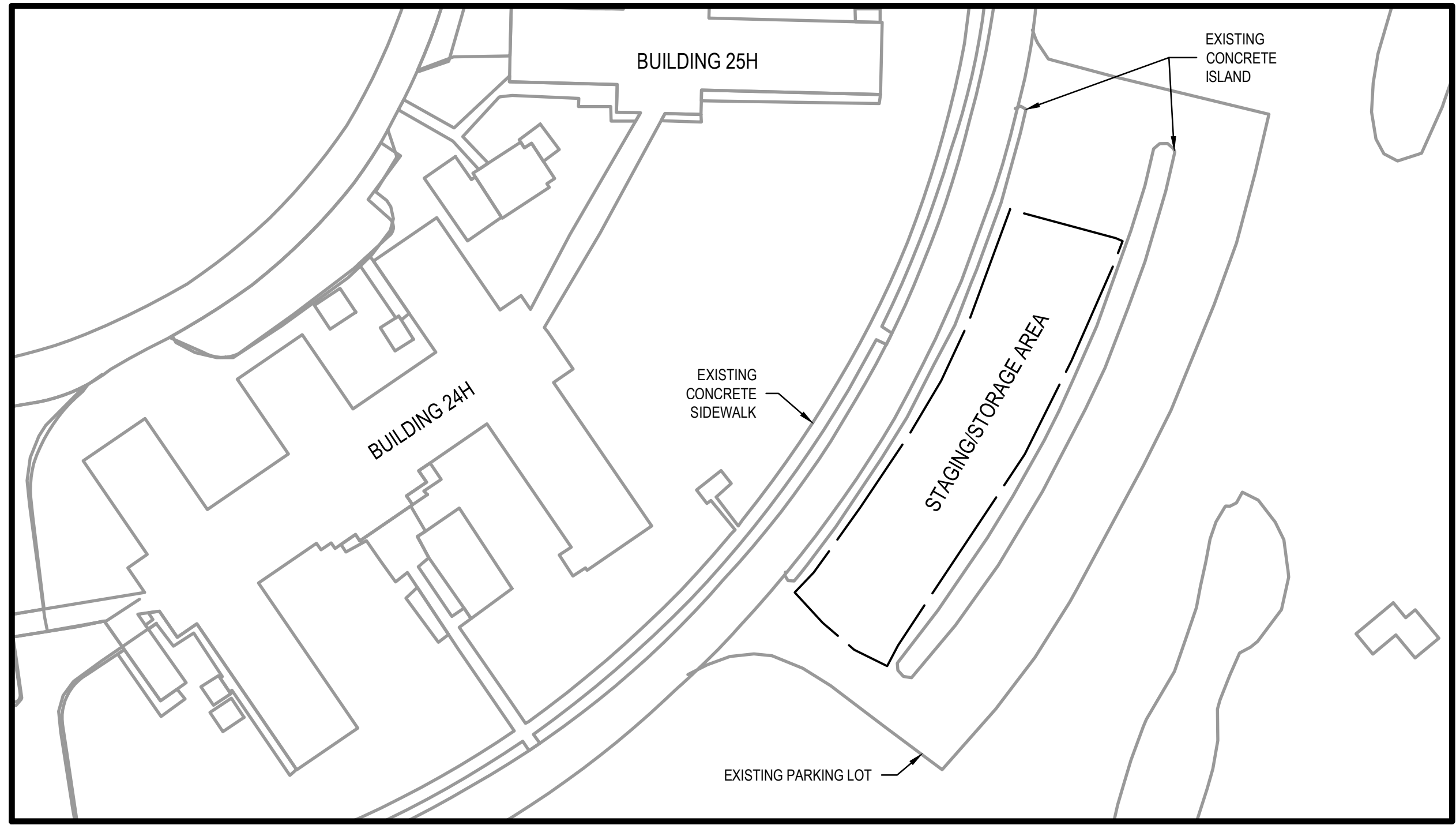
UPGRADE STEAM SYSTEM PATIENT AREAS		
Location VAMC PERRY POINT		
Issue Date 2-2-2024	Checked BJ	Drawn JB

Project Number 512A5-21-304
Building Number
Drawing Number CG102





5 AREA 5 -BLDG 9H TO MH#24  
SCALE: 1"=50'



5 AREA 6 - STAGING/STORAGE AREA  
SCALE: 1"=50'

#### EROSION/SEDIMENT CONTROL LEGEND

- LOD LIMITS OF DISTURBANCE
- STM NEW STEAM PIPING
- ELECTRIC SERVICE
- TP TREE PROTECTION FENCE

#### NOTE TO CONTRACTOR:

- EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED.
- THIS PLAN IS FOR EROSION AND SEDIMENT CONTROL ONLY.

#### SEDIMENT CONTROL NOTES

- SEE SHEETS CG-501 AND CG-502 FOR SEDIMENT CONTROL NOTES AND SPECIFICATIONS.
- SEE EROSION CONTROL NOTE #8 ON SHEET CG-501 FOR UTILITY CONSTRUCTION.
- NO DISTURBED AREA SHALL BE LEFT UNSTABILIZED OVERNIGHT.
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- PRIOR TO VEHICLES LEAVING THE SITE, WHEELS SHALL BE CLEANED OR WASHED TO REMOVE SEDIMENT. ALL SEDIMENT SPILLED, DROPPED OR TRACKED ONTO ROAD MUST BE REMOVED IMMEDIATELY BY VACUUMING, SCRAPING OR SWEEPING. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE THAT DRAINS TO AN APPROVED SEDIMENT CONTROL DEVICE.

#### SEQUENCE OF CONSTRUCTION

- CONTRACT THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AT (410) 537-3510 AT LEAST SEVEN (7) DAYS PRIOR TO COMMENCING ANY LAND DISTURBING ACTIVITY.
- HOLD PRE-CONSTRUCTION MEETING UNLESS WAIVED BY MDE.
- PROCEED WITH CONSTRUCTION. CONTRACTOR TO FOLLOW NOTE #8 ON SHEET CG-501 FOR UTILITY INSTALLATION. CONTRACTOR TO PROVIDE SAME DAY STABILIZATION FOR DISTURBED AREAS. CONTRACTOR TO STABILIZE DISTURBED AREAS WITH 4" TOPSOIL, SEED, AND MULCH.
- RESTORE ALL DISTURBED AREAS TO EXISTING CONDITIONS.
- ONCE ALL CONSTRUCTION IS COMPLETE, WITH THE APPROVAL FROM THE MDE INSPECTOR, REMOVE ALL EROSION CONTROL MEASURES AND IMMEDIATELY STABILIZE THE AREA DISTURBED BY THEIR REMOVAL.

Revisions:	Date:

SUBCONSULTANTS		
DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325
A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE/SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		

ARCH./ENGINEER OF RECORD	STAMP
PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081	

Office of Construction and Facilities Management  VA U.S. Department of Veterans Affairs
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Drawing Title EROSION AND SEDIMENT CONTROL PLAN - AREA 5 AND 6
Approved: Project Director

Phase 100% SUBMISSION
-

Project Title UPGRADE STEAM SYSTEM PATIENT AREAS
Location VAMC PERRY POINT
Issue Date 2-2-2024
Checked BJ
Drawn JB

Project Number 512A5-21-304
Building Number
Drawing Number CG103



STANDARD EROSION AND SEDIMENT CONTROL NOTES

THE WATER MANAGEMENT ADMINISTRATION REQUIRES THAT THESE NOTES, IN THEIR ENTIRETY, BE INCLUDED ON THE EROSION AND SEDIMENT CONTROL PLAN. IT IS RECOGNIZED THAT EVERY NOTE MAY NOT APPLY TO ALL PROJECTS. THE REQUIREMENT OF ANY INDIVIDUAL NOTE NOT APPLICABLE TO THE SUBJECT PROJECT IS NOT BINDING UPON THE APPLICANT OR THE APPLICANT'S CONTRACTOR.

1. THE CONTRACTOR SHALL NOTIFY MDE AT (410) 537-3510 SEVEN (7) DAYS BEFORE COMMENCING ANY LAND DISTURBING ACTIVITY AND, UNLESS WAIVED BY MDE, SHALL BE REQUIRED TO HOLD A PRE-CONSTRUCTION MEETING BETWEEN PROJECT REPRESENTATIVES AND A REPRESENTATIVE MDE.
2. THE CONTRACTOR MUST NOTIFY MDE IN WRITING AND BY TELEPHONE AT THE FOLLOWING POINTS:
  - A. THE REQUIRED PRE-CONSTRUCTION MEETING.
  - B. FOLLOWING INSTALLATION OF SEDIMENT CONTROL MEASURES.
  - C. DURING THE INSTALLATION OF SEDIMENT BASINS (TO BE CONVERTED INTO PERMANENT STORMWATER MANAGEMENT STRUCTURES) AT THE REQUIRED INSPECTION POINTS (SEE INSPECTION CHECKLIST ON PLAN). NOTIFICATION PRIOR TO COMMENCING CONSTRUCTION OF EACH STEP IS MANDATORY.
  - D. PRIOR TO REMOVAL OR MODIFICATION OF ANY SEDIMENT CONTROL STRUCTURE(S).
  - E. PRIOR TO REMOVAL OF ALL SEDIMENT CONTROL DEVICES.
  - F. PRIOR TO FINAL ACCEPTANCE.
3. THE PLAN APPROVAL LETTER, APPROVED EROSION AND SEDIMENT CONTROL PLANS, DAILY LOG BOOKS, AND TEST REPORTS SHALL BE AVAILABLE AT THE SITE FOR INSPECTION BY DULY AUTHORIZED OFFICIALS OF MDE AND THE AGENCY RESPONSIBLE FOR THE PROJECT.
4. THE CONTRACTOR SHALL CONSTRUCT ALL EROSION AND SEDIMENT CONTROL MEASURES PER THE APPROVED PLAN AND CONSTRUCTION SEQUENCE AND SHALL HAVE THEM INSPECTED AND APPROVED BY THE MDE INSPECTOR PRIOR TO BEGINNING ANY LAND DISTURBANCES. MINOR SEDIMENT CONTROL DEVICE LOCATION ADJUSTMENTS MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE MDE INSPECTOR. THE CONTRACTOR SHALL ENSURE THAT ALL RUNOFF FROM DISTURBED AREAS IS DIRECTED TO THE SEDIMENT CONTROL DEVICES AND SHALL NOT REMOVE ANY EROSION OR SEDIMENT CONTROL MEASURE WITHOUT PRIOR PERMISSION FROM MDE INSPECTOR. THE CONTRACTOR MUST OBTAIN PRIOR AGENCY AND MDE APPROVAL FOR MODIFICATIONS TO THE EROSION AND SEDIMENT CONTROL PLAN AND / OR SEQUENCE OF CONSTRUCTION.

5. THE MDE INSPECTOR HAS THE OPTION OF REQUIRING ADDITIONAL SAFETY OR SEDIMENT CONTROL MEASURES, IF DEEMED NECESSARY.
6. THE CONTRACTOR SHALL PROTECT ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS TO PREVENT THE DEPOSITION OF MATERIALS ONTO PUBLIC ROADS. ALL MATERIALS DEPOSITED ONTO PUBLIC ROADS SHALL BE REMOVED IMMEDIATELY.
7. THE CONTRACTOR SHALL INSPECT DAILY AND MAINTAIN CONTINUOUSLY IN AN EFFECTIVE OPERATING CONDITION ALL EROSION AND SEDIMENT CONTROL MEASURES UNTIL SUCH TIMES AS THEY ARE REMOVED WITH PRIOR PERMISSION FROM MDE INSPECTOR AND AGENCY INSPECTOR.

8. EROSION AND SEDIMENT CONTROL FOR UTILITY CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH APPROVED PLANS. UTILITY CONSTRUCTION SHALL ONLY BE FOR AREAS WITHIN THE DELINEATED LIMIT OF DISTURBANCE. CALL "MISS UTILITY" AT 1-800-257-7777 48 HOURS PRIOR TO THE START OF WORK. WHEN SAME DAY STABILIZATION IS APPROVED:
  - A. EXCAVATED TRENCH MATERIAL SHALL BE PLACED ON THE HIGH SIDE OF THE TRENCH.
  - B. TRENCHES FOR UTILITY INSTALLATION SHALL BE BACKFILLED, COMPACTED, AND STABILIZED AT THE END OF EACH WORKING DAY. NO MORE TRENCH SHALL BE OPENED THAN CAN BE COMPLETED THE SAME DAY.

9. ALL WATER REMOVED FROM EXCAVATED AREAS SHALL BE PASSED THROUGH AN MDE APPROVED DEWATERING PRACTICE OR PUMPED TO A SEDIMENT TRAP OR BASIN PRIOR TO DISCHARGE TO A FUNCTIONAL STORM DRAIN SYSTEM OR TO STABLE GROUND SURFACE.

10. CONCRETE WASHOUT STRUCTURES SHALL BE PASSED THROUGH AN MDE APPROVED DEWATERING PRACTICE OR PUMPED TO A SEDIMENT TRAP OR BASIN PRIOR TO DISCHARGE TO A FUNCTIONAL STORM DRAIN SYSTEM OR TO STABLE GROUND SURFACE.

11. CONSTRUCTION ACTIVITIES PRODUCING DUST SHALL IMPLEMENT CONTROL MEASURES TO AVOID THE SUSPENSION OF DUST PARTICLES AND/OR PREVENT DUST FROM BLOWING OFF-SITE OR TO AREAS WITHOUT TREATMENT.

12. FOLLOWING INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
  - A. THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
  - B. SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.

13. VEGETATIVE STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. REFER TO APPROPRIATE SPECIFICATIONS FOR TEMPORARY SEEDING, PERMANENT SEEDING, MULCHING, SODDING AND GROUND COVERS.

14. WHEN SEEDING, ALL DISTURBED AREAS WITH SLOPES FLATTER THAN 2:1 SHALL BE STABILIZED WITH 4 INCHES OF TOPSOIL, SEED, AND MULCH. ALL DISTURBED AREAS WITH SLOPES 2:1 OR STEEPER SHALL BE STABILIZED WITH MATTING OVER 2 INCHES OF TOPSOIL AND SEED.

15. ALL SEDIMENT BASINS, TRAP EMBANKMENTS, PERIMETER DIKES, SWALES AND ALL DISTURBED SLOPES STEEPER OR EQUAL TO 3:1 SHALL BE STABILIZED WITH SEED AND ANCHORED STRAW MULCH, SOD, OR OTHER APPROVED STABILIZATION MEASURES, AS SOON AS POSSIBLE BUT NO LATER THAN THREE (3) CALENDAR DAYS AFTER ESTABLISHMENT. ALL AREAS DISTURBED OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM MUST BE MINIMIZED. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.

16. PERMANENT SWALES OR OTHER POINT OF CONCENTRATED WATER FLOW SHALL BE STABILIZED WITH SEED AND AN APPROVED EROSION CONTROL MATTING, SOD, RIP-RAP, OR OTHER APPROVED STABILIZATION MEASURES.

17. FOR STOCKPILE SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1), THE CONTRACTOR SHALL APPLY SEED AND ANCHORED STRAW MULCH, SOD, OR OTHER APPROVED STABILIZATION MEASURES TO THE FACE OF THE STOCKPILE WITHIN THREE (3) CALENDAR DAYS OF ACTIVITY HAVING CEASED ON THE RESPECTIVE FACE. FOR SLOPES 3:1 OR FLATTER, THE CONTRACTOR SHALL APPLY STABILIZATION MEASURES TO THE FACE OF THE STOCKPILE WITHIN SEVEN (7) CALENDAR DAYS OF ACTIVITY HAVING CEASED ON THE RESPECTIVE FACE. MAINTENANCE SHALL BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION.

18. FOR FINISHED GRADING, THE CONTRACTOR SHALL PROVIDE ADEQUATE GRADIENTS TO PREVENT WATER FROM PONDING FOR MORE THAN TWENTY-FOUR (24) HOURS AFTER THE END OF A RAINFALL EVENT. DRAINAGE COURSES AND SWALE FLOW AREAS MAY TAKE AS LONG AS FORTY-EIGHT (48) HOURS AFTER THE END OF A RAINFALL EVENT TO DRAIN. AREAS DESIGNED TO HAVE STANDING WATER SHALL NOT BE REQUIRED TO MEET THIS REQUIREMENT.

19. WHERE DEEMED APPROPRIATE BY THE ENGINEER OR INSPECTOR, SEDIMENT BASINS AND TRAPS MAY NEED TO BE SURROUNDED WITH AN APPROVED SAFETY FENCE. THE FENCE MUST CONFORM TO LOCAL ORDINANCES AND REGULATIONS. THE DEVELOPER OR OWNER SHALL CHECK WITH LOCAL BUILDING OFFICIALS ON APPLICABLE SAFETY REQUIREMENTS. WHERE SAFETY FENCE IS DEEMED APPROPRIATE AND LOCAL ORDINANCES DO NOT SPECIFY FENCING SIZES AND TYPES, THE FOLLOWING SHALL BE USED AS A MINIMUM STANDARD: THE SAFETY FENCE SHALL BE MADE OF WELDED WIRE AND AT LEAST 42 INCHES HIGH, HAVE POSTS SPACED NO FARTHER APART THAN 8 FEET, HAVE MESH OPENINGS NO GREATER THAN 2 INCHES IN WIDTH AND 4 INCHES IN HEIGHT WITH A MINIMUM OF 14 GAUGE WIRE. SAFETY FENCE SHALL BE MAINTAINED AND IN GOOD CONDITION AT ALL TIMES.

20. ALL SEDIMENT TRAP DEPTH DIMENSIONS ARE RELATIVE TO THE OUTLET ELEVATION. ALL TRAPS SHALL HAVE A STABLE OUTFALL. ALL TRAPS AND BASINS SHALL HAVE STABLE INFLOW POINTS.

21. SEDIMENT SHALL BE REMOVED AND THE TRAP OR BASIN RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE QUARTER OF THE TOTAL DEPTH OF THE TRAP OR BASIN. TOTAL DEPTH SHALL BE MEASURED FROM THE TRAP OR BASIN BOTTOM TO THE CREST OF THE OUTLET.

22. SEDIMENT REMOVED FROM TRAPS (AND BASINS) SHALL BE PLACED AND STABILIZED IN APPROVED AREAS, BUT NOT WITHIN A FLOODPLAIN, WETLAND OR TREE-SAVE AREA. WHEN PUMPING SEDIMENT LADEN WATER, THE DISCHARGE SHALL BE DIRECTED TO AN MDE APPROVED SEDIMENT TRAPPING DEVICE PRIOR TO RELEASE FROM THE SITE. A SUMP PIT MAY BE USED IF SEDIMENT TRAPS THEMSELVES ARE BEING PUMPED OUT.

23. PRIOR TO REMOVAL OF SEDIMENT CONTROL MEASURES, THE CONTRACTOR SHALL STABILIZE AND HAVE ESTABLISHED PERMANENT STABILIZATION FOR ALL CONTRIBUTORY DISTURBED AREAS USING SOD OR AN APPROVED PERMANENT SEED MIXTURE WITH REQUIRED SOIL AMENDMENTS AND AN APPROVED ANCHORED MULCH, WOOD FIBER MULCH MAY ONLY BE USED IN SEEDING SEASON WHERE THE SLOPE DOES NOT EXCEED 10% AND GRADING HAS BEEN DONE TO PROMOTE SHEET FLOW DRAINAGE. AREAS BROUGHT TO FINISHED GRADE DURING THE SEEDING SEASON SHALL BE PERMANENTLY STABILIZED AS SOON AS POSSIBLE, BUT NOT LATER THAN THREE (3) CALENDAR DAYS AFTER ESTABLISHMENT FOR SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) AND SEVEN (7) CALENDAR DAYS FOR FLATTER SLOPES. WHEN PROPERTY IS BROUGHT TO FINISHED GRADE DURING THE MONTHS OF NOVEMBER THROUGH FEBRUARY, AND PERMANENT STABILIZATION IS FOUND TO BE IMPRACTICAL, TEMPORARY SEED AND ANCHORED STRAW MULCH SHALL BE APPLIED TO DISTURBED AREAS. THE FINAL PERMANENT STABILIZATION OF SUCH PROPERTY SHALL BE APPLIED BY MARCH 15 OR EARLIER IF GROUND AND WEATHER CONDITIONS ALLOW.

24. TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE REMOVED WITH PERMISSION OF THE MDE INSPECTOR WITHIN THIRTY (30) CALENDAR DAYS FOLLOWING ESTABLISHMENT OF PERMANENT STABILIZATION IN ALL CONTRIBUTORY DRAINAGE AREAS. UPON REMOVAL OF SEDIMENT CONTROL DEVICES, THE AREA DISTURBED BY REMOVAL SHALL BE STABILIZED WITH TOPSOIL, SEED, AND MULCH, OR AS SPECIFIED, WITHIN 24 HOURS OF SAID REMOVAL. STORMWATER MANAGEMENT STRUCTURES USED TEMPORARILY FOR SEDIMENT CONTROL SHALL BE CONVERTED TO THE PERMANENT CONFIGURATION WITHIN THIS TIME PERIOD AS WELL.

25. OFF-SITE SPOIL OR BORROW AREAS ON STATE OR FEDERAL PROPERTY SHALL HAVE PRIOR APPROVAL BY MDE AND OTHER APPLICABLE STATE, FEDERAL, AND LOCAL AGENCIES; OTHERWISE APPROVAL SHALL BE GRANTED BY THE LOCAL AUTHORITIES. ALL WASTE AND BORROW AREAS OFF-SITE SHALL BE PROTECTED BY SEDIMENT CONTROL MEASURES AND STABILIZED.

26. SITE INFORMATION:
  - A. AREA DISTURBED 2,14 ACRES
  - B. TOTAL CUT 2200 CUBIC YARDS
  - C. TOTAL FILL 2700 CUBIC YARDS
  - D. OFF-SITE WASTE / BORROW AREA LOCATION: TBD BY CONTRACTOR. AREA MUST HAVE AN ACTIVE SEDIMENT CONTROL PERMIT.

STANDARDS AND SPECIFICATIONS FOR DUST CONTROL

1. THE CONTRACTOR SHALL CONDUCT OPERATIONS AND MAINTAIN THE PROJECT SITE AS TO MINIMIZE THE CREATION AND DISPERSION OF DUST. DUST CONTROL SHALL BE USED THROUGHOUT THE WORK AT THE SITE.

2. THE CONTRACTOR MUST PROVIDE CLEAN WATER, FREE FROM SALT, OIL AND OTHER DELETERIOUS MATERIAL TO BE USED FOR ON-SITE DUST CONTROL.

3. THE CONTRACTOR SHALL SUPPLY WATER SPRAYING EQUIPMENT CAPABLE OF ACCESSING ALL WORK AREAS.

4. THE CONTRACTOR SHALL IMPLEMENT STRICT DUST CONTROL MEASURES DURING ACTIVE CONSTRUCTION PERIODS ON-SITE. THESE CONTROL MEASURES WILL GENERALLY CONSIST OF WATER APPLICATIONS THAT SHALL BE APPLIED A MINIMUM OF ONCE PER DAY DURING DRY WEATHER OR MORE OFTEN AS REQUIRED TO PREVENT DUST EMISSIONS.

5. FOR WATER APPLICATION TO UNDISTURBED SOIL SURFACES, THE CONTRACTOR SHALL:

- A. APPLY WATER WITH EQUIPMENT CONSISTING OF TANK, SPRAY BAR, PUMP WITH DISCHARGE PRESSURE GAUGE;
- B. ARRANGE SPRAY BAR HEIGHT, NOZZLE SPACING AND SPRAY PATTERN TO PROVIDE COMPLETE COVERAGE OF GROUND WITH WATER;
- C. DISPERSE WATER THROUGH NOZZLES ON SPRAY BAR AT 20 PSI MINIMUM. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.

6. FOR WATER APPLICATION TO SOIL SURFACES DURING DEMOLITION AND/OR EXCAVATION, THE CONTRACTOR SHALL:

- A. APPLY WATER WITH EQUIPMENT CONSISTING OF A TANK, PUMP WITH DISCHARGE GAUGE, HOSES AND MIST NOZZLES.
- B. LOCATE TANK AND SPRAYING EQUIPMENT SO THAT THE ENTIRE EXCAVATION AREA CAN BE MISTED WITHOUT INTERFERING WITH DEMOLITION AND/OR EXCAVATION EQUIPMENT OR OPERATIONS. KEEP AREAS DAMP WITHOUT CREATING NUISANCE CONDITIONS SUCH AS PONDING.
- C. APPLY WATER SPRAY IN A MANNER TO PREVENT MOVEMENT OF SPRAY BEYOND THE SITE BOUNDARIES.

SECTION B-4: STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

NOTE: SEDIMENT CONTROL PRACTICES MUST REMAIN IN PLACE DURING GRADING, SEEDBED PREPARATION, SEEDING, MULCHING AND VEGETATIVE ESTABLISHMENT.

ADEQUATE VEGETATIVE ESTABLISHMENT

INSPECT SEEDED AREAS FOR VEGETATIVE ESTABLISHMENT AND MAKE NECESSARY REPAIRS, REPLACEMENTS AND RESEEDINGS WITHIN THE PLANTING SEASON.

1. ADEQUATE VEGETATIVE STABILIZATION REQUIRES 95% GROUND COVER.
2. IF AN AREA HAS LESS THAN 40% GROUND COVER, RESTABILIZE FOLLOWING THE ORIGINAL RECOMMENDATIONS FOR LIME, FERTILIZER, SEEDBED PREPARATION, AND SEEDING.
3. IF AN AREA HAS BETWEEN 40%-94% GROUND COVER, OVER-SEED AND FERTILIZE USING HALF OF THE RATES ORIGINALLY SPECIFIED.
4. MAINTENANCE FERTILIZER RATES FOR PERMANENT SEEDING ARE SHOWN IN TABLE B.6.

SECTION B-4-1: STANDARDS AND SPECIFICATIONS FOR INCREMENTAL STABILIZATION

- A. INCREMENTAL STABILIZATION – CUT SLOPES

1. EXCAVATE AND STABILIZE CUT SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL CUT SLOPES AS THE WORK PROGRESSES.

2. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO SECTION B-4-1, FIGURE B.1):

- a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO CONVEY RUNOFF AROUND THE EXCAVATION.
- b. PERFORM PHASE 1 EXCAVATION, PREPARE SEEDBED, AND STABILIZE.
- c. PERFORM PHASE 2 EXCAVATION, PREPARE SEEDBED AND STABILIZE. OVERSEED PHASE 1 AREAS AS NECESSARY.
- d. PERFORM FINAL PHASE EXCAVATION, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEEDED AREAS AS NECESSARY.

NOTE: ONCE EXCAVATION HAS BEGUN THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.

- B. INCREMENTAL STABILIZATION – FILL SLOPES

1. CONSTRUCT AND STABILIZE FILL SLOPES IN INCREMENTS NOT TO EXCEED 15 FEET IN HEIGHT. PREPARE SEEDBED AND APPLY SEED AND MULCH ON ALL CUT SLOPES AS THE WORK PROGRESSES.
2. STABILIZE SLOPES IMMEDIATELY WHEN THE VERTICAL HEIGHT OF A LIFT REACHES 15 FEET, OR WHEN THE GRADING OPERATION CEASES AS PRESCRIBED IN THE PLANS.
3. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
4. CONSTRUCTION SEQUENCE EXAMPLE (REFER TO SECTION B-4-1, FIGURE B.1):

- a. CONSTRUCT AND STABILIZE ALL TEMPORARY SWALES OR DIKES THAT WILL BE USED TO DIVERT RUNOFF AROUND THE FILL. CONSTRUCT SILT FENCE ON LOW SIDE OF FILL UNLESS OTHER METHODS SHOWN ON THE PLANS ADDRESS THIS AREA.
- b. AT THE END OF EACH DAY, INSTALL TEMPORARY WATER CONVEYANCE PRACTICE(S), AS NECESSARY, TO INTERCEPT SURFACE RUNOFF AND CONVEY IT DOWN THE SLOPE IN A NON-EROSIVE MANNER.
- c. PLACE PHASE 1 FILL, PREPARE SEEDBED, AND STABILIZE.
- d. PLACE PHASE 2 FILL, PREPARE SEEDBED AND STABILIZE.
- e. PERFORM FINAL PHASE FILL, PREPARE SEEDBED, AND STABILIZE. OVERSEED PREVIOUSLY SEEDED AREAS AS NECESSARY.

NOTE: ONCE THE PLACEMENT OF FILL HAS BEGUN THE OPERATION SHOULD BE CONTINUOUS FROM GRUBBING THROUGH THE COMPLETION OF GRADING AND PLACEMENT OF TOPSOIL (IF REQUIRED) AND PERMANENT SEED AND MULCH. ANY INTERRUPTIONS IN THE OPERATION OR COMPLETING THE OPERATION OUT OF THE SEEDING SEASON WILL NECESSITATE THE APPLICATION OF TEMPORARY STABILIZATION.

SECTION B-4-2: STDS & SPECIFICATIONS FOR SOIL PREPARATION, TOPSOILING, & SOIL AMENDMENTS

- A. SOIL PREPARATION

1. TEMPORARY STABILIZATION

- a. SEEDBED PREPARATION CONSISTS OF LOOSENING SOIL TO A DEPTH OF 3"-5" BY MEANS OF SUITABLE AGRICULTURAL OR CONSTRUCTION EQUIPMENT, SUCH AS DISC HARROWS, CHISEL PLOWS, OR RIPPERS MOUNTED ON CONSTRUCTION EQUIPMENT. AFTER THE SOIL IS LOOSENED, IT MUST NOT BE ROLLED OR DRAGGED SMOOTH, BUT LEFT IN THE ROUGHENED CONDITION. SLOPES 3:1 OR FLATTER SHOULD BE TRACKED WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE.

- b. APPLY FERTILIZER AND LIME AS PRESCRIBED ON THE PLANS.

- c. INCORPORATE LIME AND FERTILIZER INTO THE TOP 3"-5" OF SOIL BY DISKING OR OTHER SUITABLE MEANS.

2. PERMANENT STABILIZATION

- a. A SOIL TEST IS REQUIRED FOR ANY EARTH DISTURBANCE OF 3 ACRES OR MORE. THE MINIMUM SOIL CONDITIONS REQUIRED FOR PERMANENT VEGETATIVE ESTABLISHMENT ARE:

- SOIL pH BETWEEN 6.0 AND 7.0.
- SOLUBLE SALTS LESS THAN 500 PARTS PER MILLION (PPM).
- SOIL CONTAINS LESS THAN 40% CLAY, BUT ENOUGH FINE GRAINED MATERIAL (>30% SILT PLUS CLAY) TO PROVIDE THE CAPACITY TO HOLD A MODERATE AMOUNT OF MOISTURE. AN EXCEPTION: IF LOVEGRASS WILL BE PLANTED, THEN A SANDY SOIL (<30% SILT PLUS CLAY) WOULD BE ACCEPTABLE.
- SOIL CONTAINS 1.5 PERCENT MINIMUM ORGANIC MATTER BY WEIGHT.
- SOIL CONTAINS SUFFICIENT PORE SPACE TO PERMIT ADEQUATE ROOT PENETRATION.

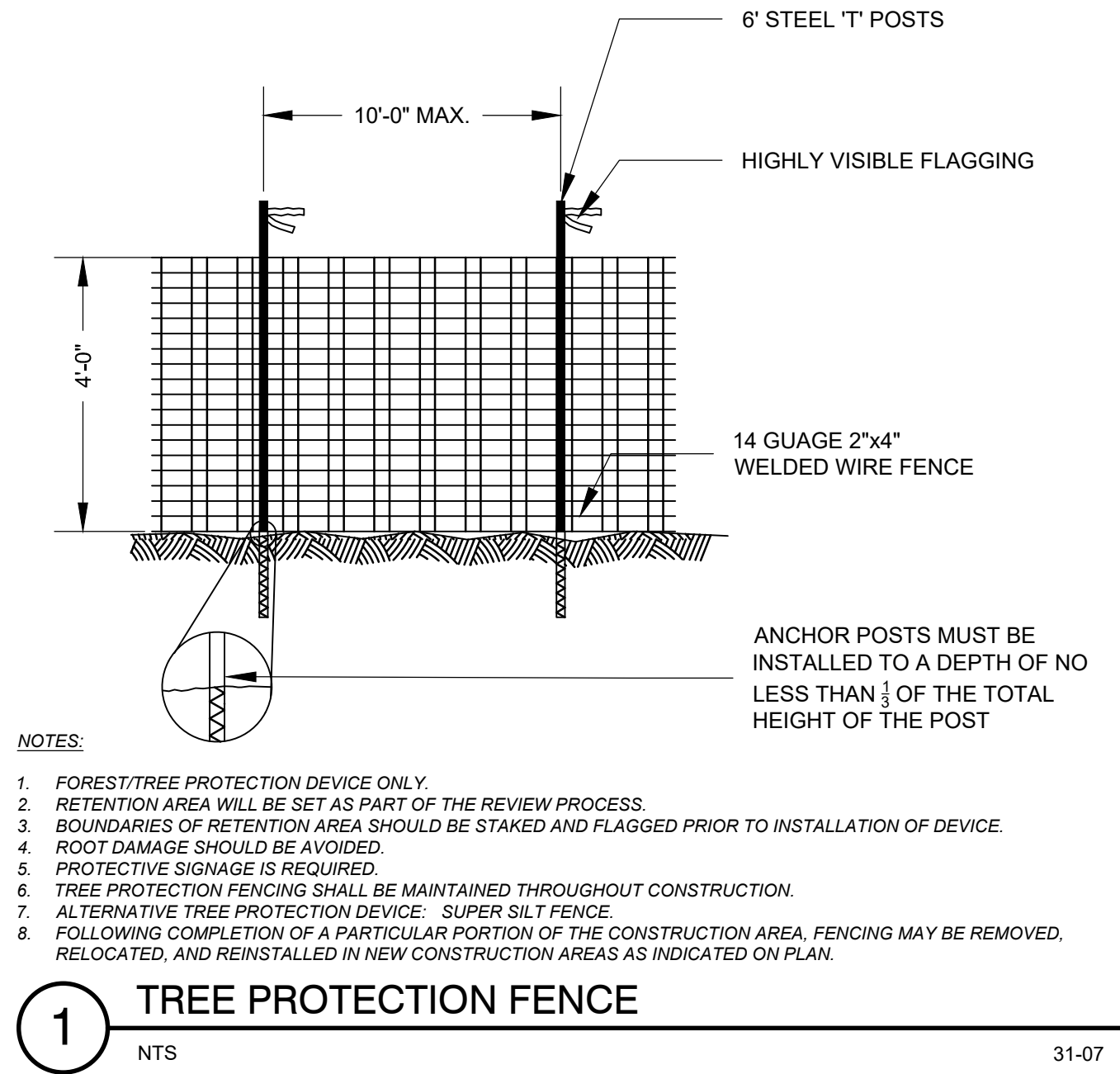
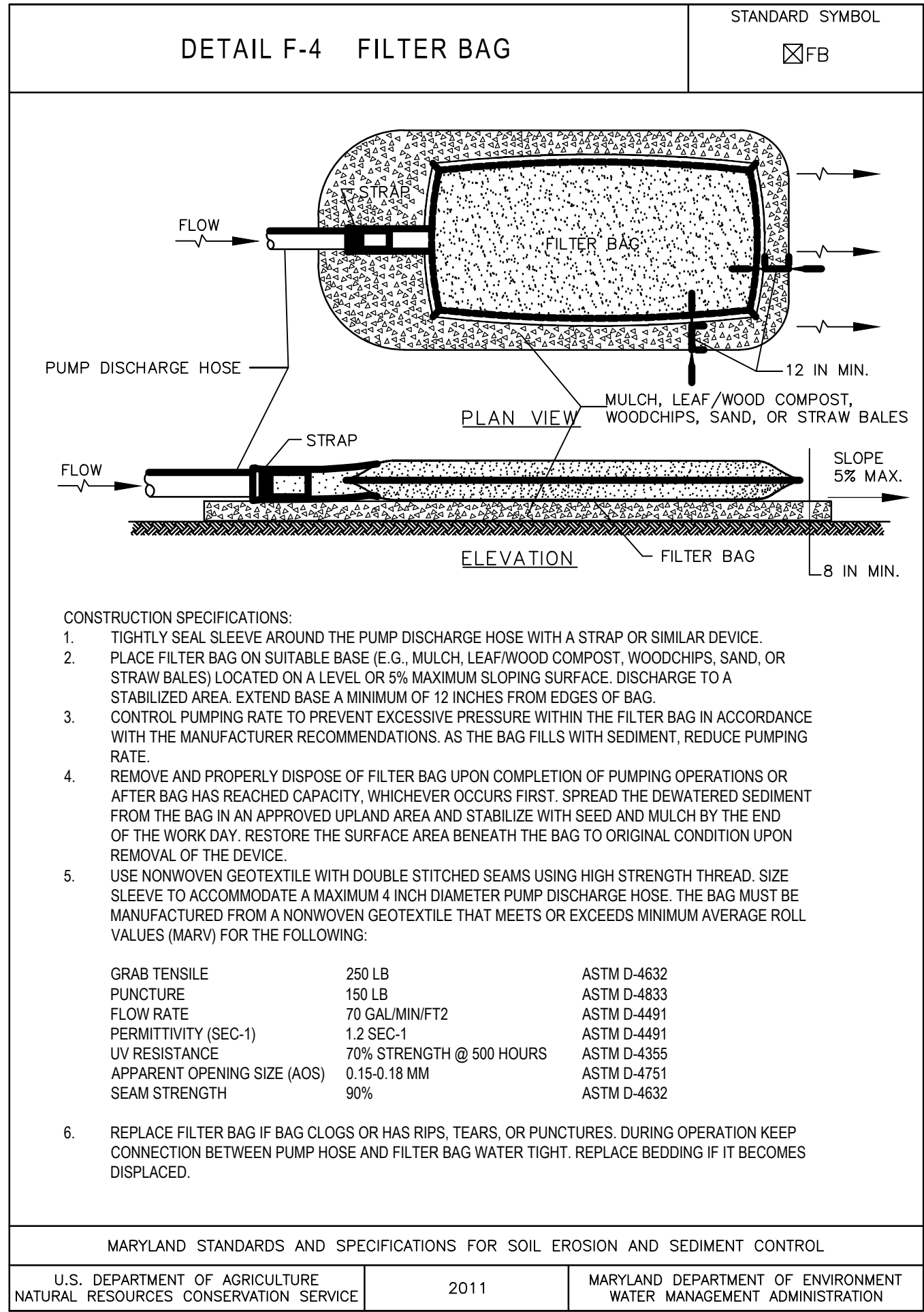
- b. APPLICATION OF AMENDMENTS OR TOPSOIL IS REQUIRED IF ON-SITE SOILS DO NOT MEET THE ABOVE CONDITIONS.

- c. GRADED AREAS MUST BE MAINTAINED IN A TRUE AND EVEN GRADE AS SPECIFIED ON THE APPROVED PLAN, THEN SCARIFIED OR OTHERWISE LOOSENED TO A DEPTH OF 3"-5".

- d. APPLY SOIL AMENDMENTS AS SPECIFIED ON THE APPROVED PLAN OR AS INDICATED BY THE RESULTS OF A SOIL TEST.

- e. MIX SOIL AMENDMENTS INTO THE TOP 3"-5" OF TOPSOIL BY DISKING OR OTHER SUITABLE MEANS. LAWN AREAS SHOULD BE RAKED TO SMOOTH THE SURFACE, REMOVE LARGE OBJECTS LIKE STONES AND BRANCHES, AND READY THE AREA FOR SEED APPLICATION. LOOSEN SURFACE SOIL BY DRAGGING WITH A HEAVY CHAIN OR OTHER EQUIPMENT TO ROUGHEN THE SURFACE WHERE SITE CONDITIONS WILL NOT PERMIT NORMAL SEEDBED PREPARATION. TRACK SLOPES 3:1 OR FLATTER WITH TRACKED EQUIPMENT LEAVING THE SOIL IN AN IRREGULAR CONDITION WITH RIDGES RUNNING PARALLEL TO THE CONTOUR OF THE SLOPE. LEAVING THE TOP 1"-3" OF SOIL LOOSE AND FRABLE. SEEDBED LOOSENING MAY NOT BE UNNECESSARY ON NEWLY DISTURBED AREAS.

(CONTINUED ON SHEET CG-502)



NOTE TO THE CONTRACTOR: "EROSION AND SEDIMENT CONTROL

SHALL BE STRICTLY ENFORCED"

THIS PLAN IS FOR EROSION & SEDIMENT CONTROL PURPOSES ONLY.

SUBCONSULTANTS			ARCH/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number		
<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			<b>PRIME A/E:</b>  <b>VETERAN DESIGN &amp; CONSTRUCTION, INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		VA U.S. Department of Veterans Affairs	<b>EROSION AND SEDIMENT CONTROL NOTES</b>	100% SUBMISSION	<b>UPGRADE STEAM SYSTEM PATIENT AREAS</b>	512A5-21-304		
<b>A. MORTON THOMAS AND ASSOCIATES, INC.</b> CIVIL ENGINEER/LANDSCAPE/SURVEY 703 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545						Approved: Project Director	-	<b>VAMC PERRY POINT</b>			
Revisions:			Date:					<b>Issue Date</b> 2-2-2024	<b>Checked</b> BJ	<b>Drawn</b> JB	<b>Drawing Number</b> CG501



## B. TOPSOILING

- ### C. SOIL AMENDMENTS (FERTILIZER AND LIME SPECIFICATIONS)

### SECTION B-4-3: STANDARDS AND SPECIFICATIONS FOR SEEDING AND MULCHING

### A. SEEDING

- ## B. MULCHING

CONTACT WITH THE SOIL WITHOUT INHIBITING THE GROWTH OF THE GRASS SEEDINGS.

- #### SECTION B-4-4: STANDARDS AND SPECIFICATIONS FOR TEMPORARY STABILIZATION

- TABLE B.1: TEMPORARY SEEDING FOR SITE STABILIZATION

FERTILIZER RATE (10-20-20): 436 LB/AC (10 LB/1000 SF)  
LIME RATE: 2 TONS/AC (90 LB/1000 SF)

## NOTES




- #### SECTION B-4-5: STANDARDS AND SPECIFICATIONS FOR PERMANENT STABILIZATION

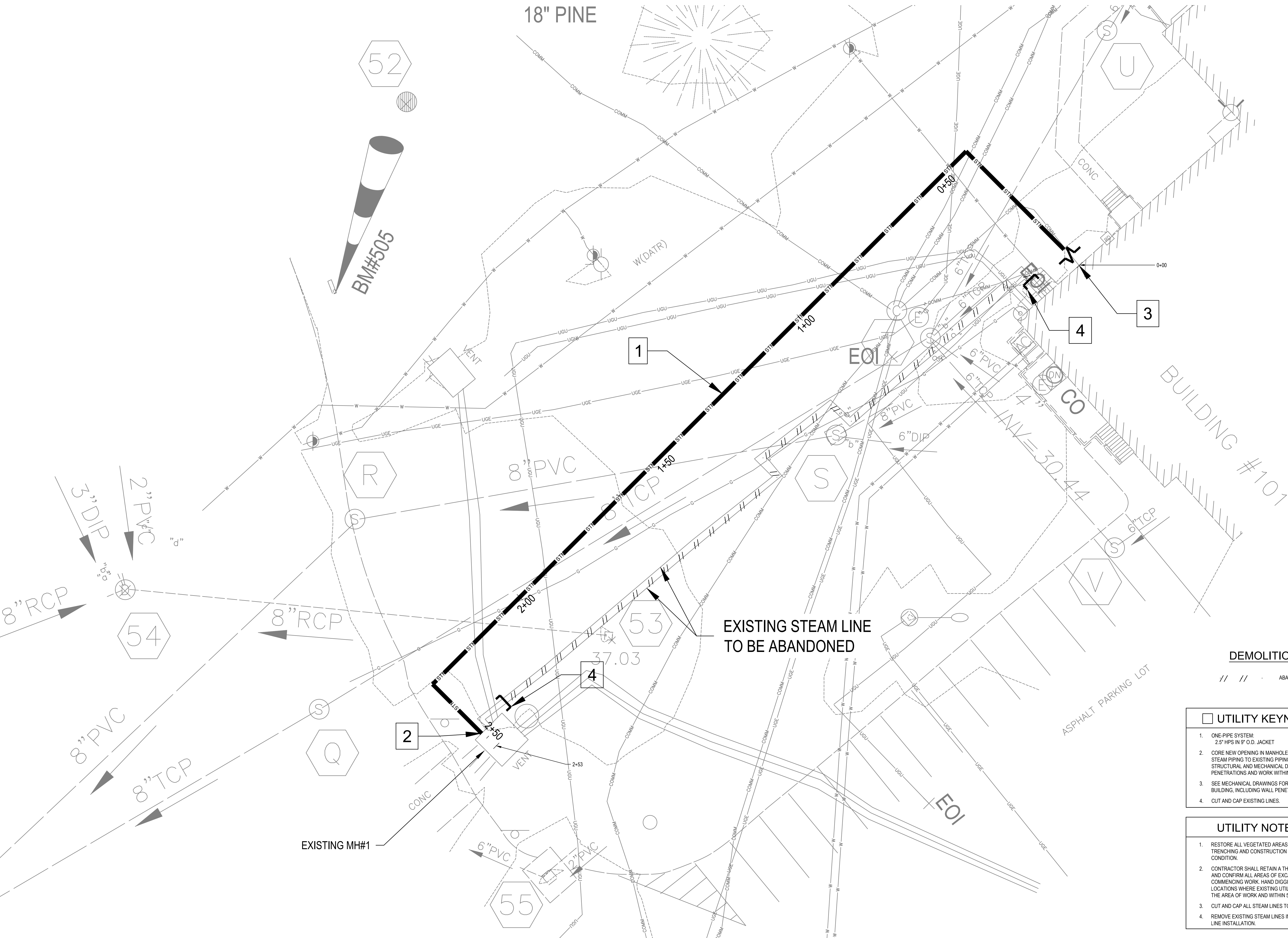
- TABLE B.2: PERMANENT SEEDING FOR SITE STABILIZATION

\*FREQUENT FREEZING AND THAWING OF WET SOILS MAY RESULT IN FROST-HEAVING OF MATERIALS PLANTED IN LATE FALL, IF PLANTS HAVE NO SUFFICIENTLY ROOTED IN PLACE.

File Path



		<b>SUBCONSULTANTS</b>			<b>ARCH./ENGINEER OF RECORD</b>		<b>STAMP</b>		<b>Office of Construction and Facilities Management</b>		<b>Drawing Title</b>		<b>Phase</b>		<b>Project Title</b>		<b>Project Number</b>							
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377			APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325			PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081				Office of Construction and Facilities Management  U.S. Department of Veterans Affairs		SITE UTILITY PLAN - AREA 1 [BUILDING 101 TO MH-1]		100% SUBMISSION		UPGRADE STEAM SYSTEM PATIENT AREAS		512A5-21-304	
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE)/SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545													VAMC PERRY POINT		Drawing Number							
Revisions:		Date:									Approved: Project Director				Issue Date 2-2-2024		Checked BJ		Drawn JB		CU101			



**DEMOLITION LEGEND**

// // ABANDON PIPE

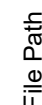
**UTILITY KEYNOTES**

- ONE-PIPE SYSTEM:  
2.5" HPS IN 9" O.D. JACKET
- CORE NEW OPENING IN MANHOLE FOR CONNECTION OF NEW  
STEAM PIPING TO EXISTING PIPING WITHIN MANHOLE. SEE  
STRUCTURAL AND MECHANICAL DRAWINGS FOR WALL  
PENETRATIONS AND WORK WITHIN INTERIOR OF MANHOLE.
- SEE MECHANICAL DRAWINGS FOR CONTINUATION OF PIPE INTO  
BUILDING, INCLUDING WALL PENETRATIONS
- CUT AND CAP EXISTING LINES.

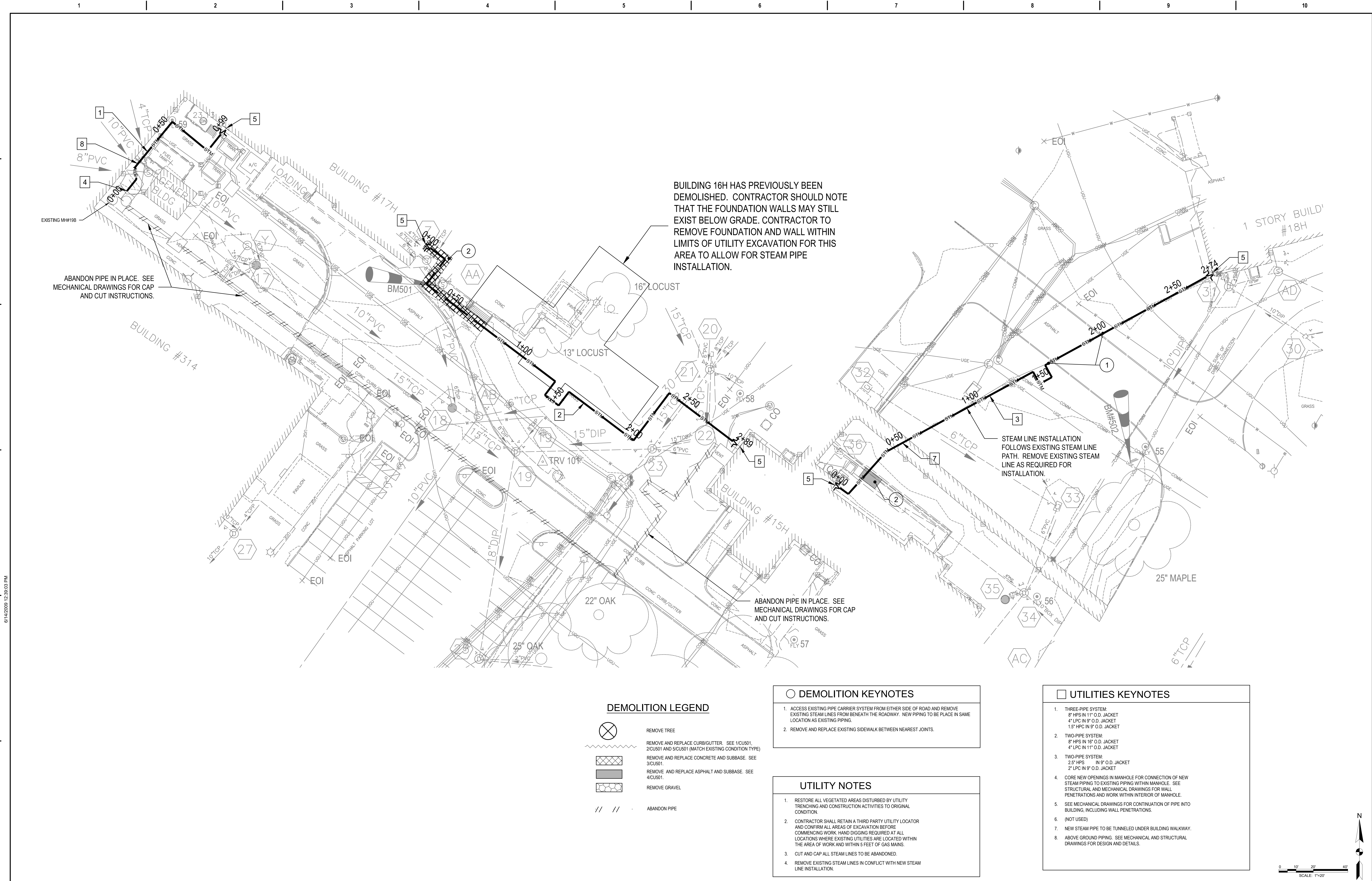
**UTILITY NOTES**

- RESTORE ALL VEGETATED AREAS DISTURBED BY UTILITY  
TRENCHING AND CONSTRUCTION ACTIVITIES TO ORIGINAL  
CONDITION.
- CONTRACTOR SHALL RETAIN A THIRD PARTY UTILITY LOCATOR  
AND CONFIRM ALL AREAS OF EXCAVATION BEFORE  
COMMENCING WORK. HAND DIGGING REQUIRED AT ALL  
LOCATIONS WHERE EXISTING UTILITIES ARE LOCATED WITHIN  
THE AREA OF WORK AND WITHIN 5 FEET OF GAS MAINS.
- CUT AND CAP ALL STEAM LINES TO BE ABANDONED.
- REMOVE EXISTING STEAM LINES IN CONFLICT WITH NEW STEAM  
LINE INSTALLATION.



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File Path:			SUBCONSULTANTS		ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management  VA U.S. Department of Veterans Affairs	Drawing Title	Phase	Project Title			Project Number		
			DELTA ENGINEERS, ARCHITECTS & SURVEYORS	MORABITO CONSULTANTS, INC.	APEX COMPANIES, LLC	PRIME A/E:			SITE UTILITY PLAN - AREA 3 [BUILDING 17H TO BUILDING 18H]	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS			512A5-21-304	
			ARCHITECTURAL SERVICES	STRUCTURAL ENGINEERING	INDUSTRIAL HYGIENIST										
			8401 CONNECTICUT AVE SUITE 350	952 RIDGEBROOK ROAD, SUITE 1700	15850 CRABBS BRANCH WAY, STE 200										
			CHEVY CHASE, MARYLAND 20815	SPARKS, MARYLAND 21152	ROCKVILLE, MARYLAND 20855										
			301.718.0080	410.467.2377	240.499.7325										
		A. MORTON THOMAS AND ASSOCIATES, INC.				VETERAN DESIGN & CONSTRUCTION, INC.				Location		Drawing Number			
		CIVIL ENGINEER (LANDSCAPE) SURVEY			5523 RESEARCH PARK DRIVE SUITE 110					VAMC PERRY POINT		CU103			
		700 KING FARM BOULEVARD, 3RD FLOOR			BALTIMORE, MARYLAND 21228					Issue Date		Checked	Drawn		
		ROCKVILLE, MARYLAND 20850			443.543.5081					2-2-2024		BJ	JB		
		301.881.2545													

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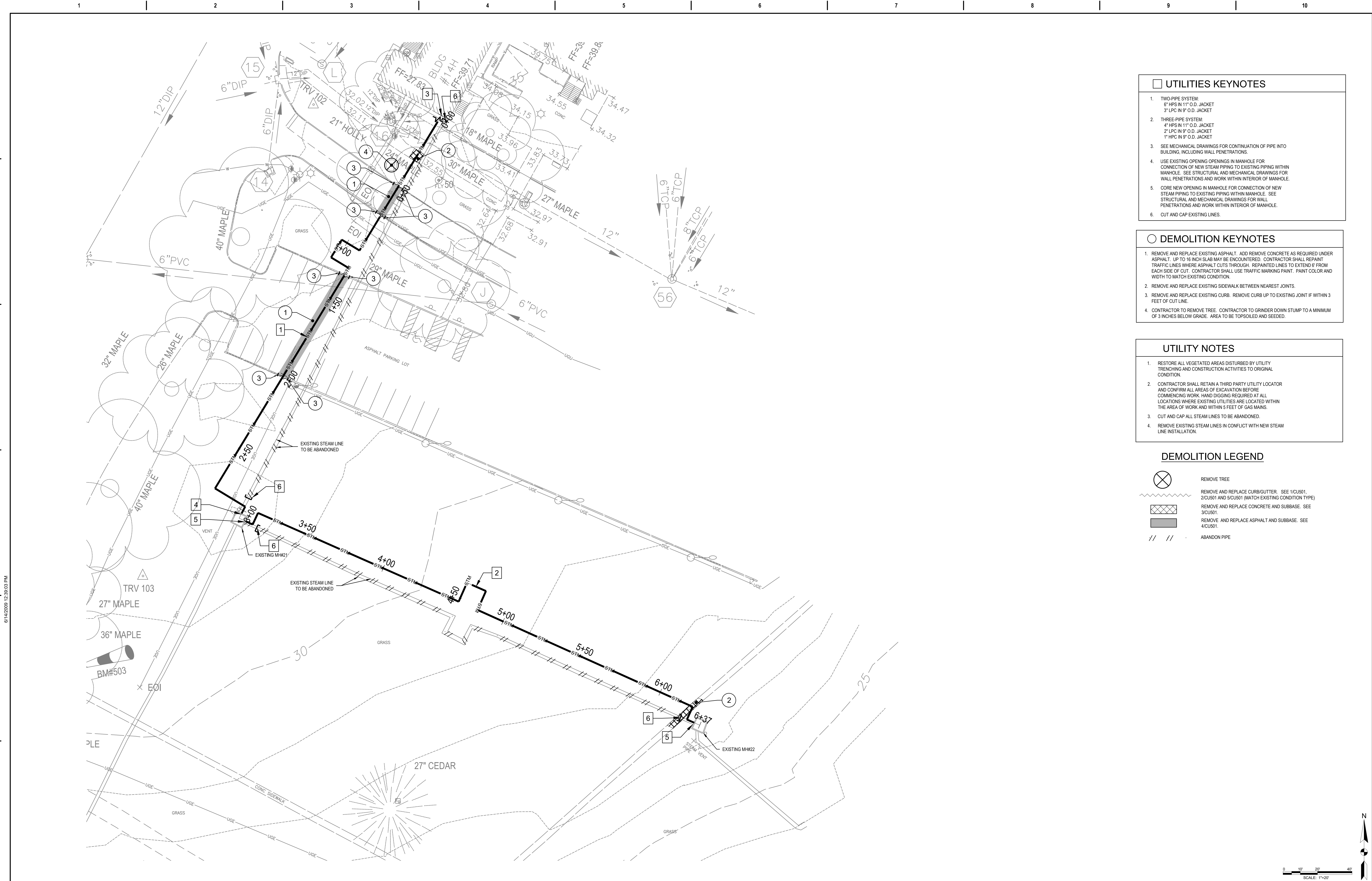
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VA FORM 08 - 6231





- ### UTILITIES KEYNOTES
- TWO-PIPE SYSTEM:  
6" HPS IN 11" O.D. JACKET  
3" LPC IN 9" O.D. JACKET
  - THREE-PIPE SYSTEM:  
4" HPS IN 11" O.D. JACKET  
2" LPC IN 9" O.D. JACKET  
1" HPC IN 9" O.D. JACKET
  - SEE MECHANICAL DRAWINGS FOR CONTINUATION OF PIPE INTO BUILDING, INCLUDING WALL PENETRATIONS.
  - USE EXISTING OPENING OPENINGS IN MANHOLE FOR CONNECTION OF NEW STEAM PIPING TO EXISTING PIPING WITHIN MANHOLE. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR WALL PENETRATIONS AND WORK WITHIN INTERIOR OF MANHOLE.
  - CORE NEW OPENINGS IN MANHOLE FOR CONNECTION OF NEW STEAM PIPING TO EXISTING PIPING WITHIN MANHOLE. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR WALL PENETRATIONS AND WORK WITHIN INTERIOR OF MANHOLE.
  - CUT AND CAP EXISTING LINES.

- ### DEMOLITION KEYNOTES
- REMOVE AND REPLACE EXISTING ASPHALT. ADD REMOVE CONCRETE AS REQUIRED UNDER ASPHALT. UP TO 16 INCH SLAB MAY BE ENCOUNTERED. CONTRACTOR SHALL REPAINT TRAFFIC LINES WHERE ASPHALT CUTS THROUGH. REPAINTED LINES TO EXTEND 6' FROM EACH SIDE OF CUT. CONTRACTOR SHALL USE TRAFFIC MARKING PAINT. PAINT COLOR AND WIDTH TO MATCH EXISTING CONDITION.
  - REMOVE AND REPLACE EXISTING SIDEWALK BETWEEN NEAREST JOINTS.
  - REMOVE AND REPLACE EXISTING CURB. REMOVE CURB UP TO EXISTING JOINT IF WITHIN 3 FEET OF CUT LINE.
  - CONTRACTOR TO REMOVE TREE. CONTRACTOR TO GRINDER DOWN STUMP TO A MINIMUM OF 3 INCHES BELOW GRADE. AREA TO BE TOPSOILED AND SEEDED.

- ### UTILITY NOTES
- RESTORE ALL VEGETATED AREAS DISTURBED BY UTILITY TRENCHING AND CONSTRUCTION ACTIVITIES TO ORIGINAL CONDITION.
  - CONTRACTOR SHALL RETAIN A THIRD PARTY UTILITY LOCATOR AND CONFIRM ALL AREAS OF EXCAVATION BEFORE COMMENCING WORK. HAND DIGGING REQUIRED AT ALL LOCATIONS WHERE EXISTING UTILITIES ARE LOCATED WITHIN THE AREA OF WORK AND WITHIN 5 FEET OF GAS MAINS.
  - CUT AND CAP ALL STEAM LINES TO BE ABANDONED.
  - REMOVE EXISTING STEAM LINES IN CONFLICT WITH NEW STEAM LINE INSTALLATION.

### DEMOLITION LEGEND

	REMOVE TREE
	REMOVE AND REPLACE CURB/GUTTER. SEE 1/CUS01, 2/CUS01 AND 5/CUS01 (MATCH EXISTING CONDITION TYPE)
	REMOVE AND REPLACE CONCRETE AND SUBBASE. SEE 3/CUS01.
	REMOVE AND REPLACE ASPHALT AND SUBBASE. SEE 4/CUS01.
	ABANDON PIPE

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- UTILITIES KEYNOTES**
- TWO-PIPE SYSTEM:  
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  - THREE-PIPE SYSTEM:  
8\"/>
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8\"/>
  - THREE-PIPE SYSTEM:  
6\"/>
  - CONNECT TO EXISTING STEAM PIPING WITHIN CARRIER PIPE SYSTEM. SEE MECHANICAL DRAWINGS FOR DETAILS. CORE NEW OPENING IN CARRIER PIPE SYSTEM, AS NEEDED.
  - STEAM MANHOLE. SEE MECHANICAL AND STRUCTURAL DRAWINGS FOR DETAILS.
  - CORE NEW OPENINGS IN MANHOLE FOR CONNECTION OF NEW STEAM PIPING TO EXISTING PIPING WITHIN MANHOLE. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR WALL PENETRATIONS AND WORK WITHIN INTERIOR OF MANHOLE.
  - USE EXISTING OPENING OPENINGS IN MANHOLE FOR CONNECTION OF NEW STEAM PIPING TO EXISTING PIPING WITHIN MANHOLE. SEE STRUCTURAL AND MECHANICAL DRAWINGS FOR WALL PENETRATIONS AND WORK WITHIN INTERIOR OF MANHOLE.
  - CUT AND CAP EXISTING LINES.
  - ELECTRICAL SERVICE LINE TO MANHOLES 25, 26, 27, & 9H. SEE ELECTRICAL DRAWINGS FOR DETAILS.

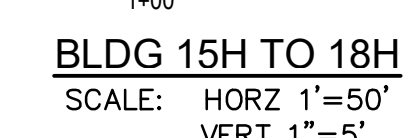
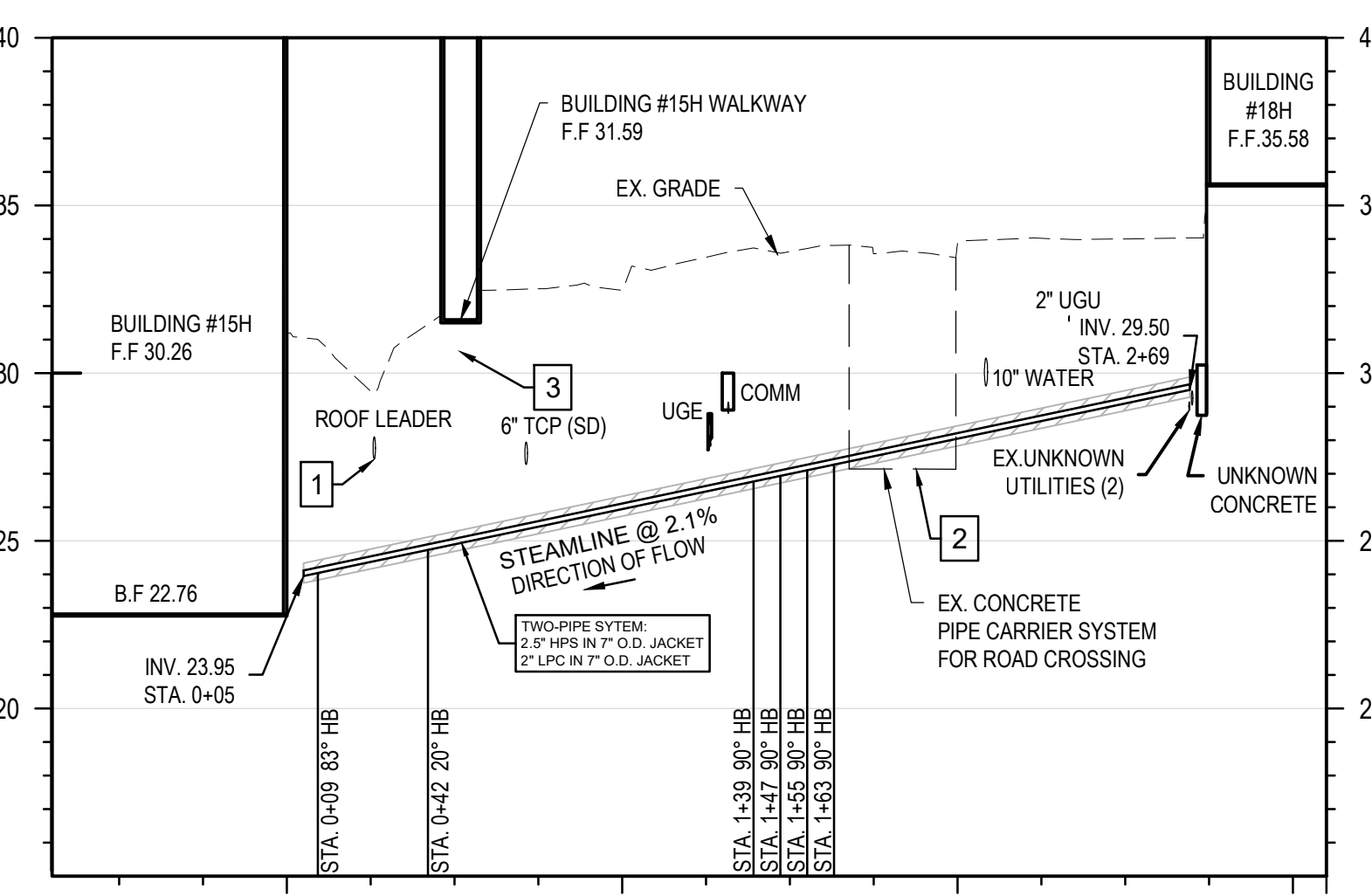
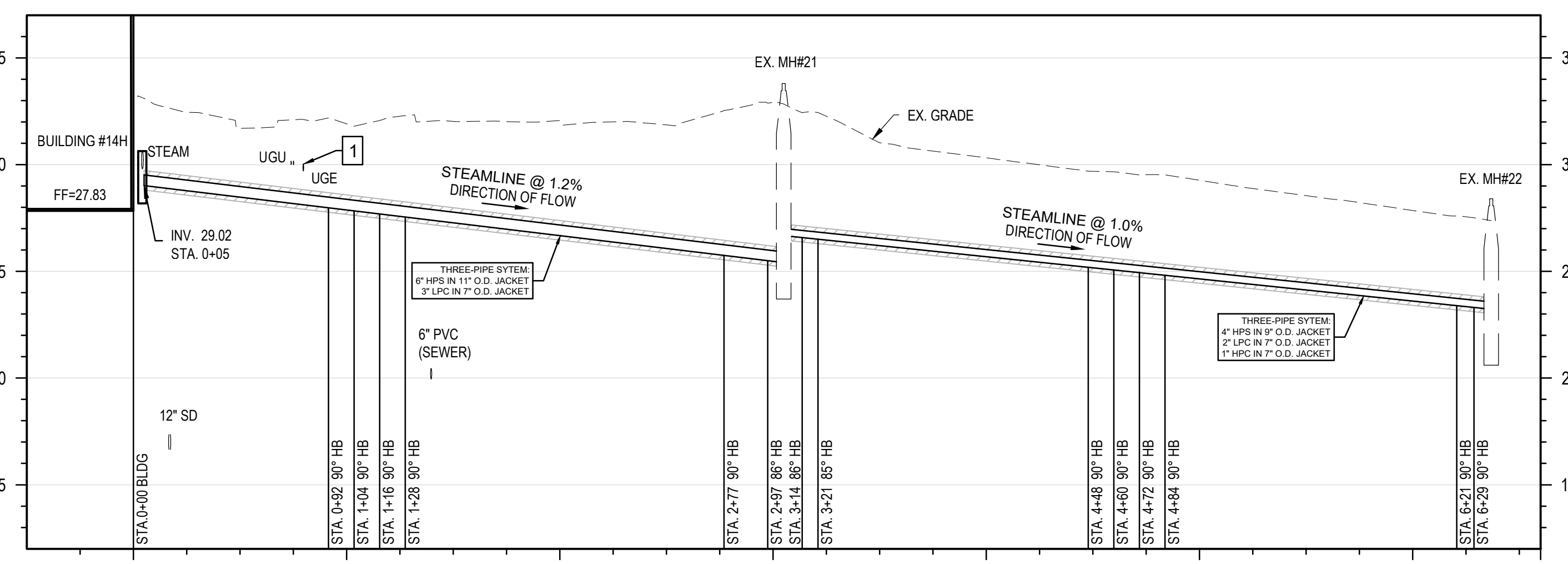
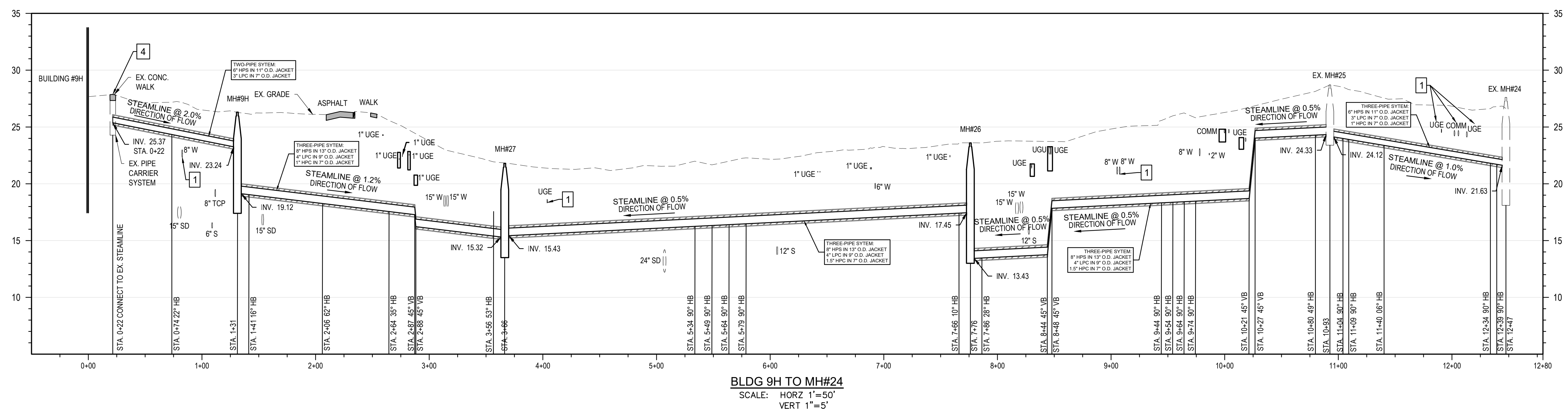
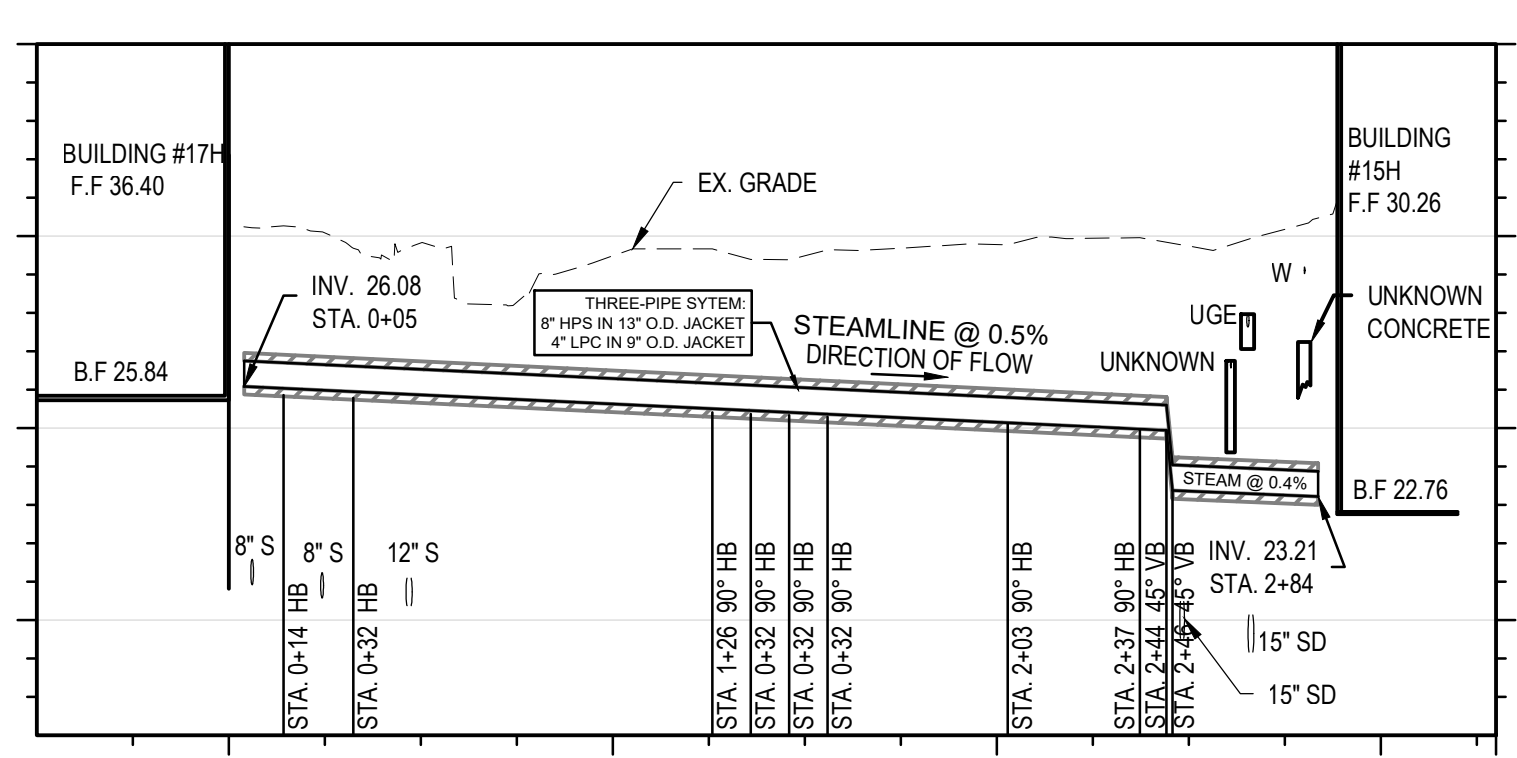
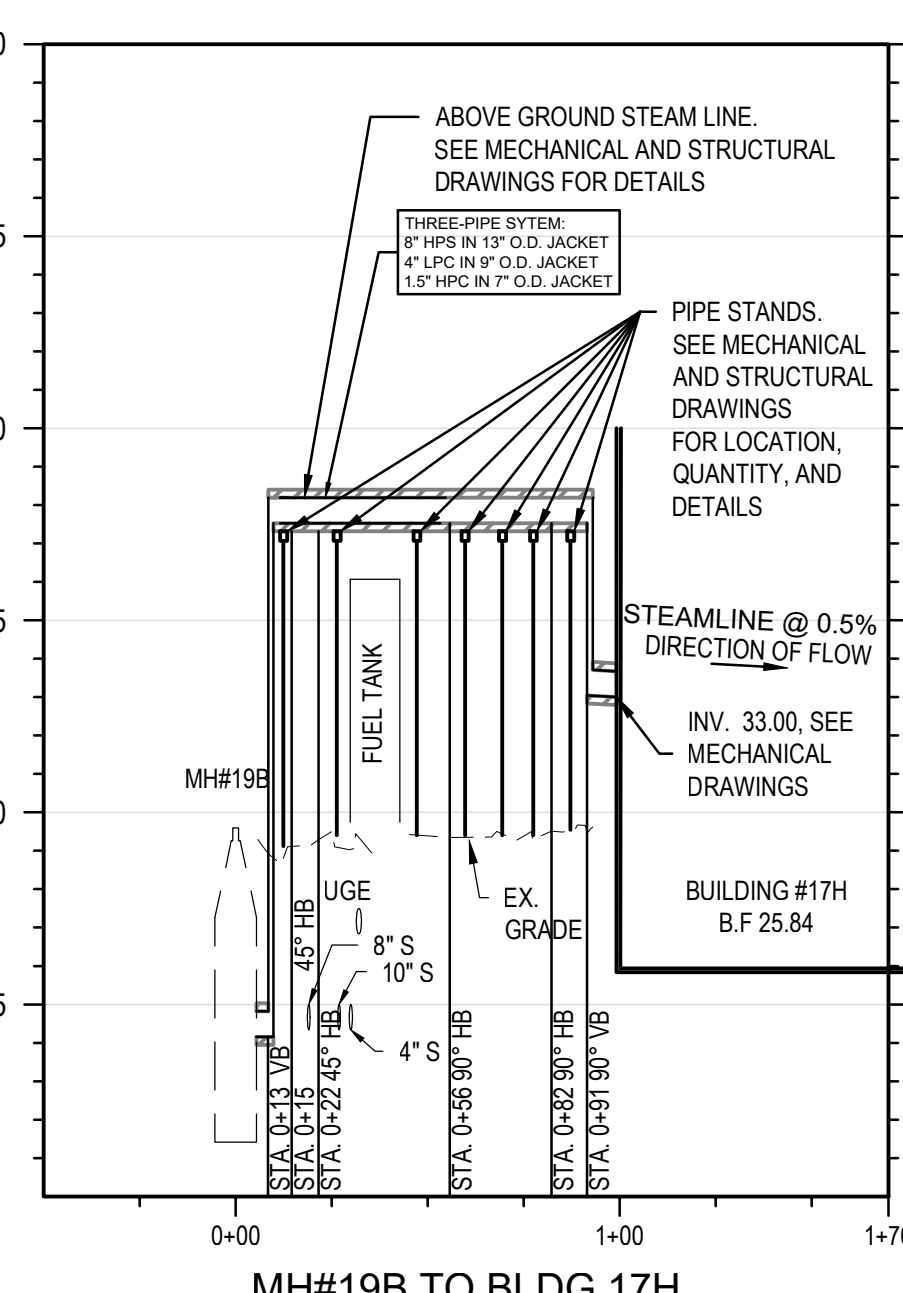
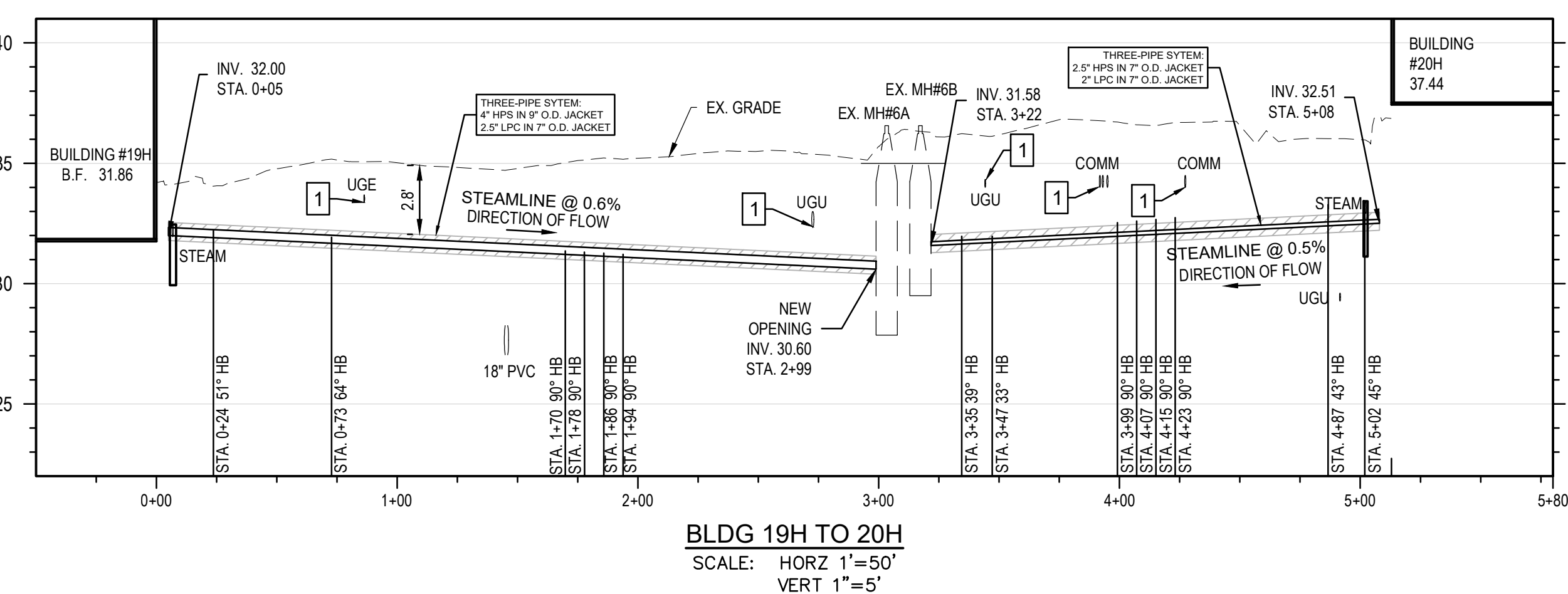
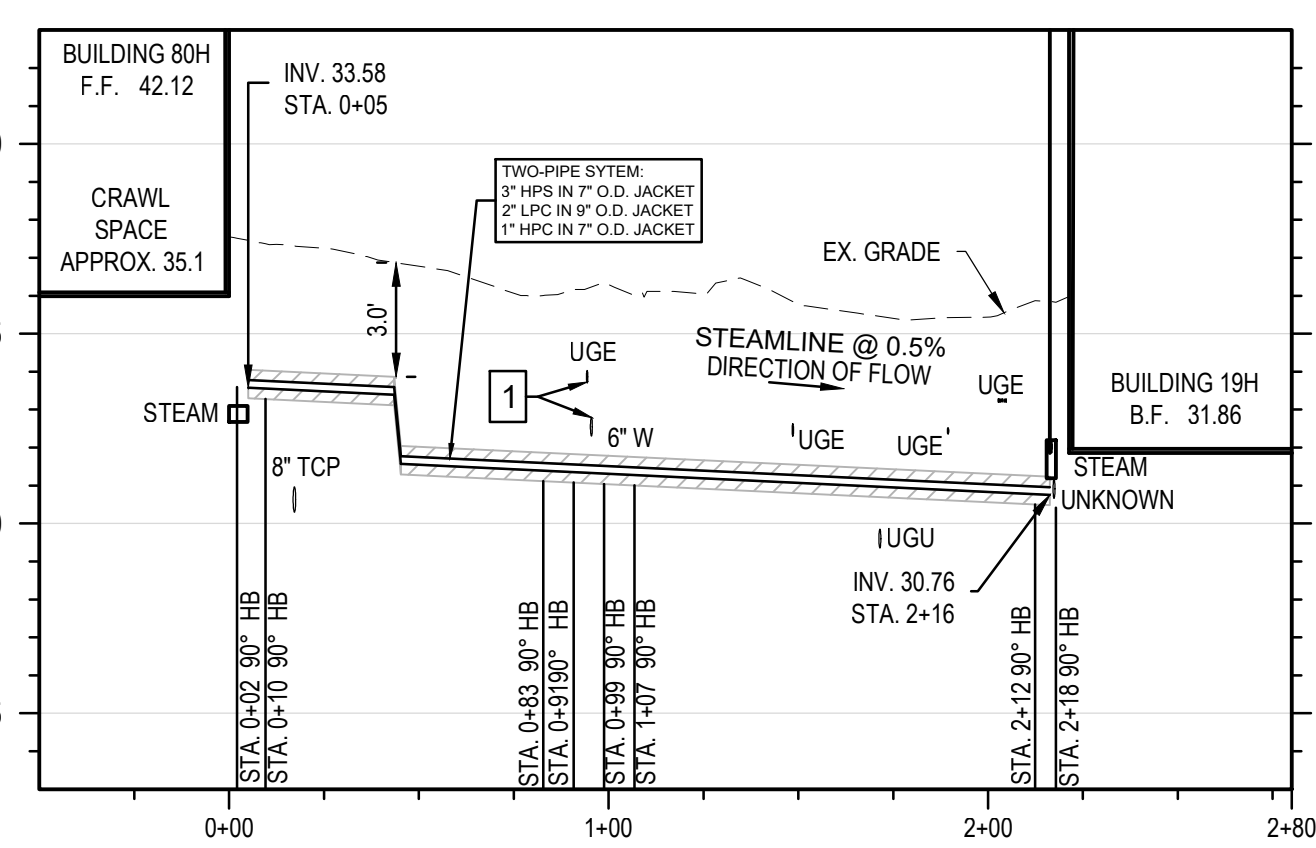
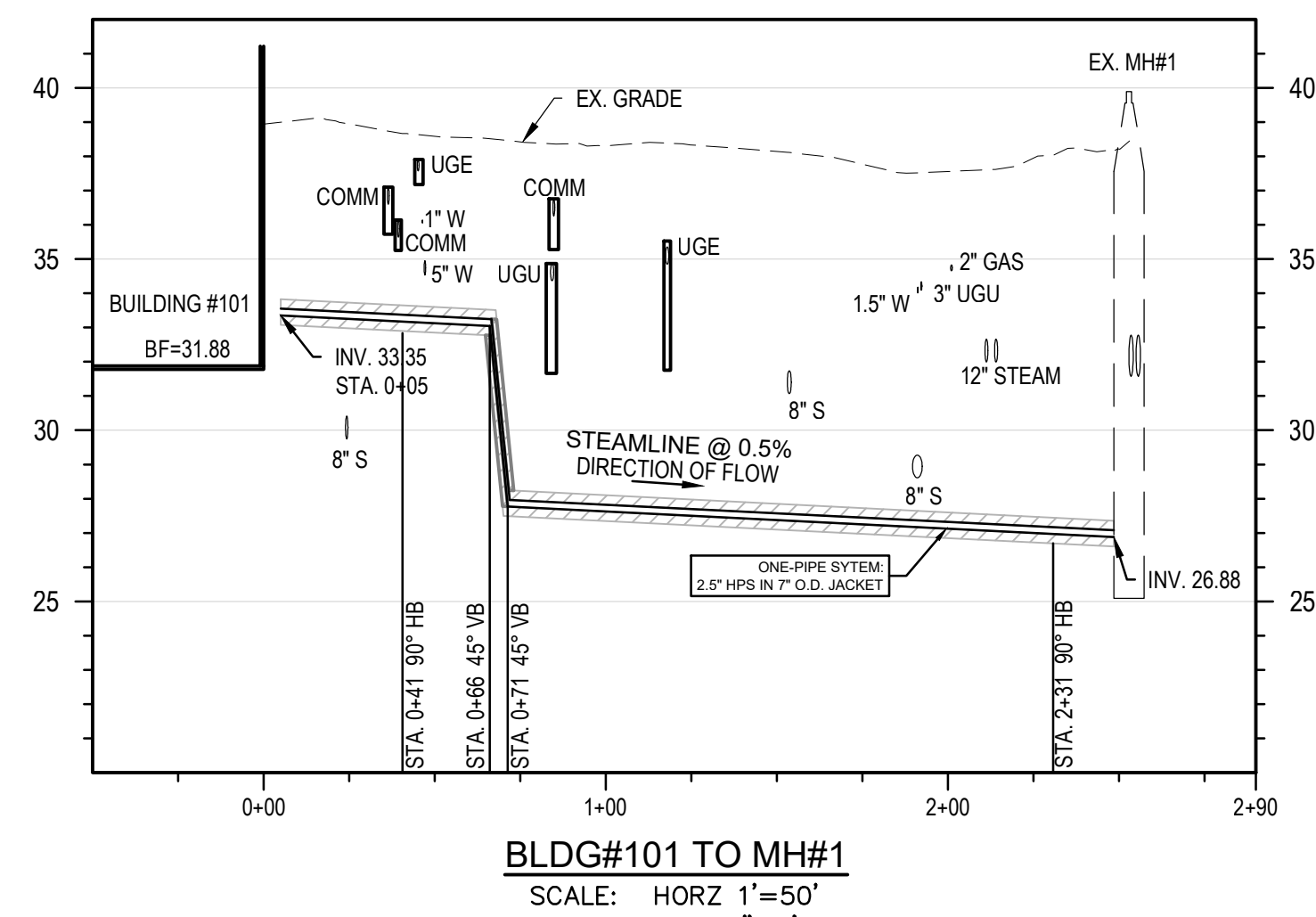
- DEMOLITION KEYNOTES**
- REMOVE AND REPLACE EXISTING ASPHALT. ADD REMOVE CONCRETE AS REQUIRED UNDER ASPHALT. UP TO 16 INCH SLAB MAY BE ENCOUNTERED. CONTRACTOR SHALL REPAINT TRAFFIC LINES WHERE ASPHALT CUTS THROUGH. REPAINT LINES TO EXTEND 6' FROM EACH SIDE OF CUT. CONTRACTOR SHALL USE TRAFFIC MARKING PAINT. PAINT COLOR AND WIDTH TO MATCH EXISTING CONDITION.
  - REMOVE AND REPLACE EXISTING SIDEWALK BETWEEN NEAREST JOINTS.
  - REMOVE AND REPLACE EXISTING CURB. REMOVE CURB UP TO EXISTING JOINT IF WITHIN 3 FEET OF CUT LINE.
  - CONTRACTOR TO REMOVE TREE. CONTRACTOR TO GRINDER DOWN STUMP TO A MINIMUM OF 3 INCHES BELOW GRADE. AREA TO BE TOPSOILED AND SEEDED.

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  - CUT AND CAP ALL STEAM LINES TO BE ABANDONED.
  - REMOVE EXISTING STEAM LINES IN CONFLICT WITH NEW STEAM LINE INSTALLATION.

- DEMOLITION LEGEND**
- REMOVE TREE
  - REMOVE AND REPLACE CURB/GUTTER. SEE 1C/U501, 2C/U501 AND 5C/U501 (MATCH EXISTING CONDITION TYPE)
  - REMOVE AND REPLACE CONCRETE AND SUBBASE. SEE 3C/U501
  - REMOVE AND REPLACE ASPHALT AND SUBBASE. SEE 4C/U501
  - ABANDON PIPE

SUBCONSULTANTS		ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management U.S. Department of Veterans Affairs	Drawing Title	Phase	Project Title	Project Number
DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080 A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE) / SURVEY 710 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081			SITE UTILITY PLAN - AREA 5 [BUILDING 9H TO MH-24]	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS	512A5-21-304
Revisions:		Date:			Approved: Project Director		Location	Drawing Number
							VAMC PERRY POINT	CU105
							Issue Date	Checked
							2-2-2024	BJ
							Drawn	JB






	UTILITY KEYNOTES
1.	CONTRACTOR TO INVESTIGATE THESE UTILITY CROSSING PRIOR TO CONSTRUCTION AND VERIFY TYPE AND DEPTH.
2.	EX PIPE CARRIER SYSTEM BASED ON VERBAL DESCRIPTION, NO DRAWING DATA AVAILABLE. CONTRACTOR SHALL INVESTIGATE PRIOR TO CONSTRUCTION AND VERIFY LOCATION AND DEPTH. CONTRACTOR TO UTILIZED PIPE CARRIER SYSTEM TO INSTALL STEAM PIPE BELOW ROAD WITHOUT DISTURBING ROADWAY PAVEMENT
3.	STEAM PIPEMENT BE TUNNELED UNDER BUILDING WALKWAY.
4.	INFORMATION FOR EXISTING PIPE CARRIER SYSTEM UNDERNEATH CONCRETE WALK TAKEN FROM PROJECT PLANS (PROJECT #15-07-03-31TES), SHEET D-2-R3 AND D-7. 4. CONTRACTOR TO INVESTIGATE CARRIER SYSTEM PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND DEPTH OF CONNECTION. SEE MECHANICAL DRAWINGS FOR CONNECTION OF PIPE TO EXISTING PIPE WITHIN PIPE CARRIER SYSTEM.
	UTILITY NOTES
1.	STEAM PROFILES SUBJECT TO CHANGE AFTER COMPLETION OF UTILITY TEST HOLES AND CONFIRMATION OF EXISTING UTILITY CROSSING DEPTHS AND SIZES.
2.	STEAM PROFILES SUBJECT TO CHANGE AFTER VERIFICATION OF LOCATION AND DEPTHS OF PIPE CARRIER SYSTEMS.
3.	SEE MECHANICAL DRAWINGS FOR DETAILS OF STEAM PIPE INTO BUILDINGS AND STRUCTURES.
4.	SEE MECHANICAL DRAWINGS FOR DETAILS OF PIPE PENETRATIONS INTO BUILDINGS AND STRUCTURES.
5.	SEE MECHANICAL DRAWINGS FOR DETAILS AND LOCATIONS OF PIPE ANCHORS AND SUPPORTS.

ABBREVIATION TABLE:

B.F.	BASEMENT FLOOR
COMM	COMMUNICATIONS
EX	EXISTING
GRD	GROUND
F.F.	FINISHED FLOOR
HB	HORIZONTAL BEND
MH	MANHOLE
PVC	POLYVYNAL CHLORIDE
S	SANITARY SEWER
SD	STORM DRAIN
STA.	STATION
TCP	TERRACOTTA PIPE
UGE	UNDERGROUND ELECTRIC
UGU	UNDERGROUND UTILITY
VB	VERTICAL BEND
W	WATER

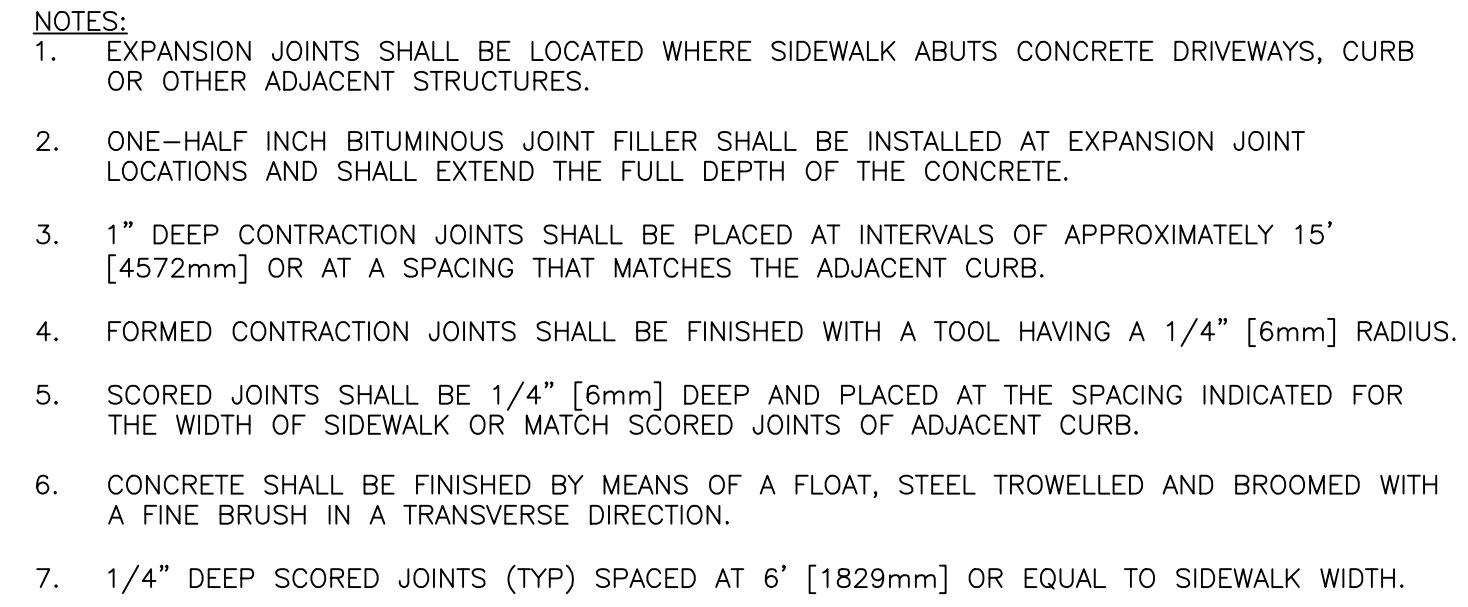
		SUBCONSULTANTS			ARCH/ENGINEER OF RECORD		STAMP		<div>Office of Construction and Facilities Management</div> <div>VA   U.S. Department of Veterans Affairs</div>		Drawing Title		Phase		Project Title			Project Number			
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080  A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE) SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377			APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325			PRIME A/E:  Veteran Design & Construction, Inc. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		UTILITY PROFILES		100% SUBMISSION		UPGRADE STEAM SYSTEM PATIENT AREAS			512A5-21-304	
Revisions:		Date:									Approved: Project Director		-		Location			Drawing Number			
															VAMC PERRY POINT			CU301			
															Issue Date		Checked		Drawn		
															2-2-2024		BJ		JB		





1. CONSTRUCT EXPANSION JOINTS AT 10' INTERVALS, AT BEGINNING AND ENDS OF ALL CURVE P.O.T'S, AT STRUCTURES AND AT MID POINT OF ALL CURB RETURNS . USE 1/2" PRE FORMED EXPANSION JOINT FILLER, NON-EXTRUDING.

4 UTILITY TRENCH ASPHALT PAVEMENT RESTORATION DETAIL  
SCALE: NTS



Department of  
Veterans Affairs

DATE ISSUED: DECEMBER 2008



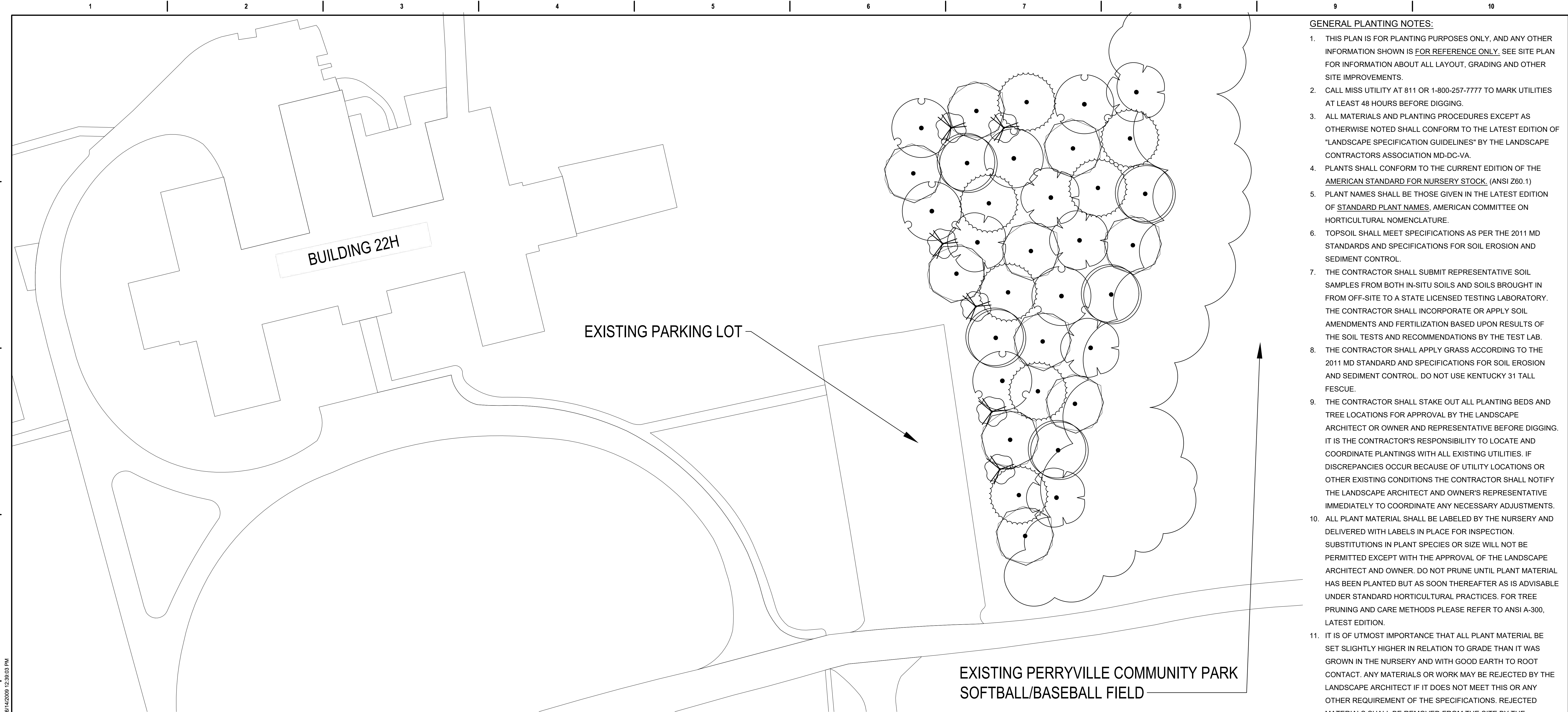
DETAIL TITLE / CONCRETE CURB AND TERMINAL SECTION

SCALE : NONE

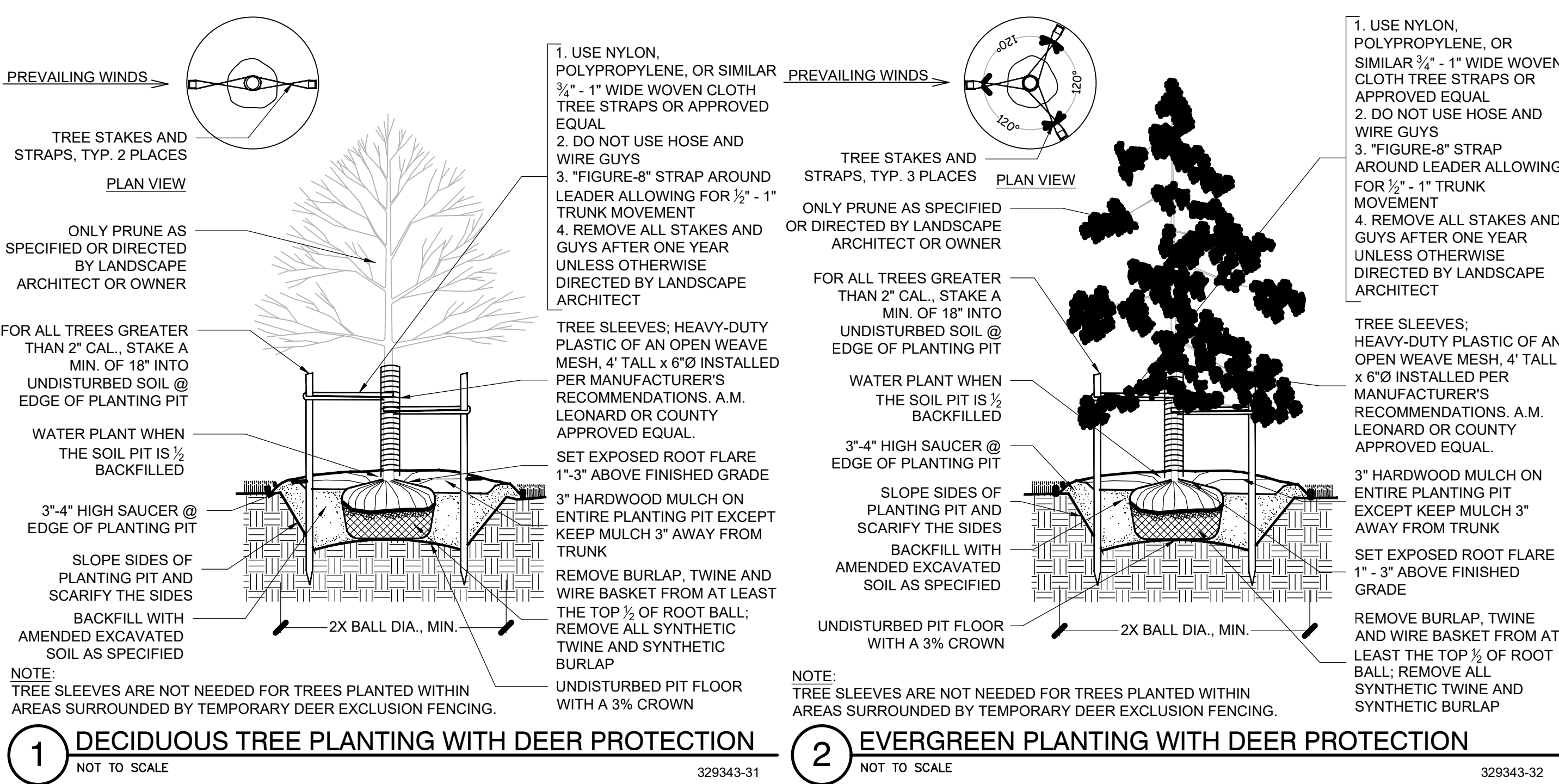
DATE ISSUED: DECEMBER 2008      CAD DETAIL NO.:      SD320523-17.DWG

File Path





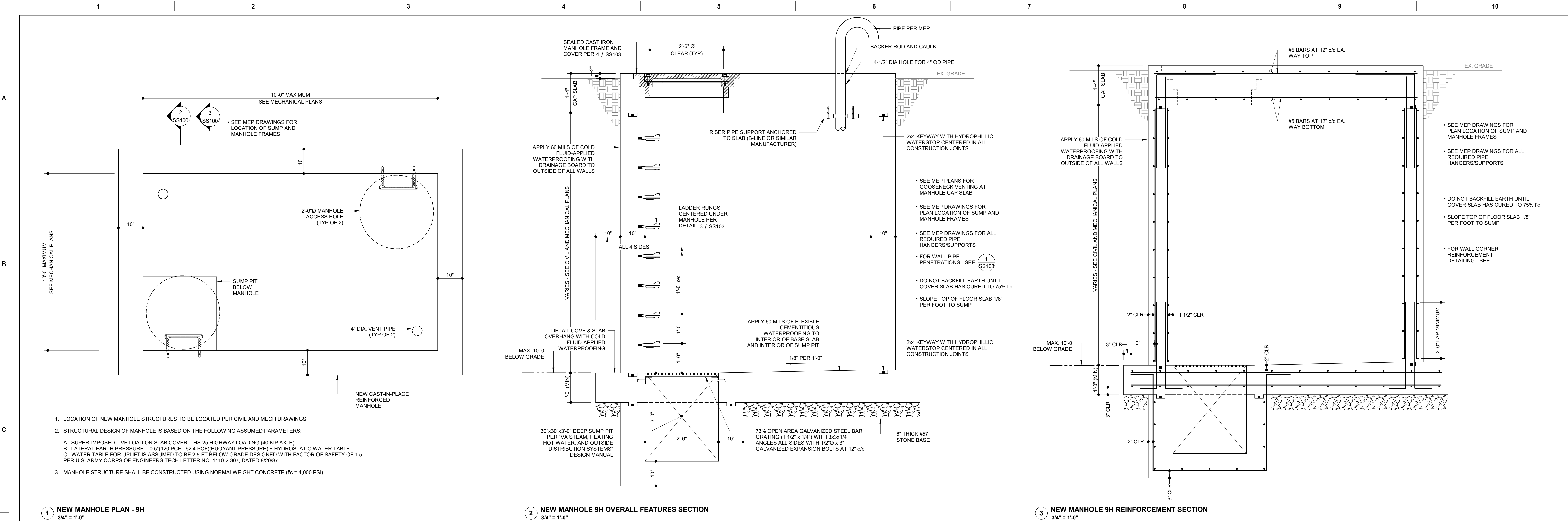
- GENERAL PLANTING NOTES:**
- THIS PLAN IS FOR PLANTING PURPOSES ONLY, AND ANY OTHER INFORMATION SHOWN IS FOR REFERENCE ONLY. SEE SITE PLAN FOR INFORMATION ABOUT ALL LAYOUT, GRADING AND OTHER SITE IMPROVEMENTS.
  - CALL MISS UTILITY AT 811 OR 1-800-257-7777 TO MARK UTILITIES AT LEAST 48 HOURS BEFORE DIGGING.
  - ALL MATERIALS AND PLANTING PROCEDURES EXCEPT AS OTHERWISE NOTED SHALL CONFORM TO THE LATEST EDITION OF "LANDSCAPE SPECIFICATION GUIDELINES" BY THE LANDSCAPE CONTRACTORS ASSOCIATION MD-DC-VA.
  - PLANTS SHALL CONFORM TO THE CURRENT EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, (ANSI Z60.1)
  - PLANT NAMES SHALL BE THOSE GIVEN IN THE LATEST EDITION OF STANDARD PLANT NAMES, AMERICAN COMMITTEE ON HORTICULTURAL NOMENCLATURE.
  - TOPSOIL SHALL MEET SPECIFICATIONS AS PER THE 2011 MD STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL.
  - THE CONTRACTOR SHALL SUBMIT REPRESENTATIVE SOIL SAMPLES FROM BOTH IN-SITU SOILS AND SOILS BROUGHT IN FROM OFF-SITE TO A STATE LICENSED TESTING LABORATORY. THE CONTRACTOR SHALL INCORPORATE OR APPLY SOIL AMENDMENTS AND FERTILIZATION BASED UPON RESULTS OF THE SOIL TESTS AND RECOMMENDATIONS BY THE TEST LAB.
  - THE CONTRACTOR SHALL APPLY GRASS ACCORDING TO THE 2011 MD STANDARD AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. DO NOT USE KENTUCKY 31 TALL FESCUE.
  - THE CONTRACTOR SHALL STAKE OUT ALL PLANTING BEDS AND TREE LOCATIONS FOR APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNER AND REPRESENTATIVE BEFORE DIGGING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND COORDINATE PLANTINGS WITH ALL EXISTING UTILITIES. IF DISCREPANCIES OCCUR BECAUSE OF UTILITY LOCATIONS OR OTHER EXISTING CONDITIONS THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY TO COORDINATE ANY NECESSARY ADJUSTMENTS.
  - ALL PLANT MATERIAL SHALL BE LABELED BY THE NURSERY AND DELIVERED WITH LABELS IN PLACE FOR INSPECTION. SUBSTITUTIONS IN PLANT SPECIES OR SIZE WILL NOT BE PERMITTED EXCEPT WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT AND OWNER. DO NOT PRUNE UNTIL PLANT MATERIAL HAS BEEN PLANTED BUT AS SOON THEREAFTER AS IS ADVISABLE UNDER STANDARD HORTICULTURAL PRACTICES. FOR TREE PRUNING AND CARE METHODS PLEASE REFER TO ANSI A-300, LATEST EDITION.
  - IT IS OF UTMOST IMPORTANCE THAT ALL PLANT MATERIAL BE SET SLIGHTLY HIGHER IN RELATION TO GRADE THAN IT WAS GROWN IN THE NURSERY AND WITH GOOD EARTH TO ROOT CONTACT. ANY MATERIALS OR WORK MAY BE REJECTED BY THE LANDSCAPE ARCHITECT IF IT DOES NOT MEET THIS OR ANY OTHER REQUIREMENT OF THE SPECIFICATIONS. REJECTED MATERIALS SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.
  - THE CONTRACTOR SHALL MULCH AND WATER ALL PLANTS WELL ON THE DAY THEY ARE PLANTED. INDIVIDUAL PLANTING SHALL BE MULCHED. ACCEPTABLE MULCH SHALL BE HARDWOOD ONLY. MULCH MUST BE WELL-AGED, UNIFORM IN COLOR, AND FREE OF FOREIGN MATERIAL INCLUDING PLANT MATERIAL. WELL-AGED MULCH IS DEFINED AS MULCH THAT HAS BEEN STOCKPILED OR STORED FOR AT LEAST TWELVE (12) MONTHS. THE CONTRACTOR SHALL APPLY THE MULCH UNIFORMLY TO A 2 TO 3 INCH DEPTH. MULCH SHALL BE KEPT 3 TO 4 INCHES AWAY FROM ALL TRUNKS AND WOODY STEMS.
  - IN CASE OF DISCREPANCIES BETWEEN QUANTITIES ON THE PLANT LIST AND THE PLAN, THE PLAN SHALL GOVERN.
  - SEED OR SOD BARE AREAS AS DIRECTED BY OWNER FOR ALL DISTURBED AREAS TO BE STABILIZED THAT ARE NOT LANDSCAPED OR COVERED.



PLANT SCHEDULE					
TREES	CODE	BOTANICAL / COMMON NAME	CONT	CAL	QTY
	AS	ACER SACCHARUM / SUGAR MAPLE	CONTAINER	1" CAL	6
	CG	CARYA GLABRA / PIGNUT HICKORY	CONTAINER	1" CAL	5
	CE	CERCIS CANADENSIS / EASTERN REDBUD	CONTAINER	1" CAL	6
	FG	FAGUS GRANDIFOLIA / AMERICAN BEECH	CONTAINER	1" CAL	6
	QA	QUERCUS ALBA / WHITE OAK	CONTAINER	1" CAL	10
	TD	TAXODIUM DISTICHUM / BALD CYPRESS	CONTAINER	1" CAL	7

<b>1 DECIDUOUS TREE PLANTING WITH DEER PROTECTION</b> NOT TO SCALE 329343-31		<b>2 EVERGREEN PLANTING WITH DEER PROTECTION</b> NOT TO SCALE 329343-32		<b>SUBCONSULTANTS</b> <div>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080</div> <div>A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER / LANDSCAPE / SURVEY 1700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545</div>		<b>ARCH/ENGINEER OF RECORD</b> <div>PRIME A/E:  VETERAN DESIGN &amp; CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081</div>		<b>STAMP</b> 		<b>Office of Construction and Facilities Management</b> U.S. Department of Veterans Affairs		<b>Drawing Title</b> LANDSCAPE PLAN		<b>Phase</b> 100% SUBMISSION		<b>Project Title</b> UPGRADE STEAM SYSTEM PATIENT AREAS		<b>Project Number</b> 512A5-21-304	
<b>Revisions:</b>		<b>Date:</b>						<b>Approved: Project Director</b>				<b>Location</b> VAMC PERRY POINT		<b>Drawing Number</b> LP101					
<b>Issue Date</b> 2-2-2024		<b>Checked</b> BJ		<b>Drawn</b> JB															





1 NEW MANHOLE PLAN - 9H  
3/4" = 1'-0"

2 NEW MANHOLE 9H OVERALL FEATURES SECTION  
3/4" = 1'-0"

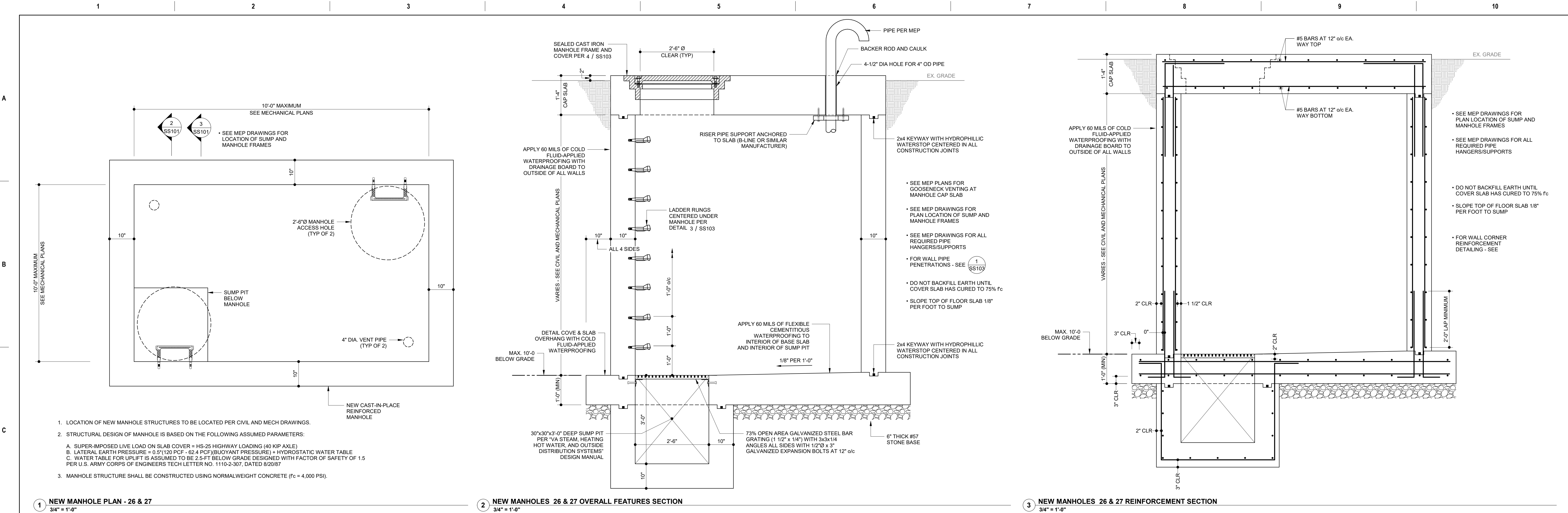
3 NEW MANHOLE 9H REINFORCEMENT SECTION  
3/4" = 1'-0"



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<div>Revisions:</div> <div>Date:</div>		<div>SUBCONSULTANTS</div> <div>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.716.0900</div> <div>MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377</div> <div>APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325</div>		<div>ARCH./ENGINEER OF RECORD</div> <div>ENGINEERS:</div> <div>VETERAN DESIGN &amp; CONSTRUCTION, INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081</div>	<div>STAMP</div> <div>STATE OF MARYLAND PROFESSIONAL ENGINEER 5218-A</div>	<div>Office of Construction and Facilities Management</div> <div>VA U.S. Department of Veterans Affairs</div>	<div>Drawing Title</div> <div>NEW MANHOLES 26 &amp; 27 - STRUCTURAL PLANS AND DETAILS</div> <div>Approved:</div>	<div>Phase</div> <div>100% SUBMISSION</div> <div>-</div>	<div>Project Title</div> <div>UPGRADE STEAM SYSTEM PATIENT AREAS</div> <div>Location</div> <div>VAMC PERRY POINT</div> <div>Issue Date</div> <div>02/02/2024</div> <div>Checked</div> <div>AM</div> <div>Drawn</div> <div>RJM</div>	<div>Project Number</div> <div>512A5-21-304</div> <div>Building Number</div> <div></div> <div>Drawing Number</div> <div>SS101</div>
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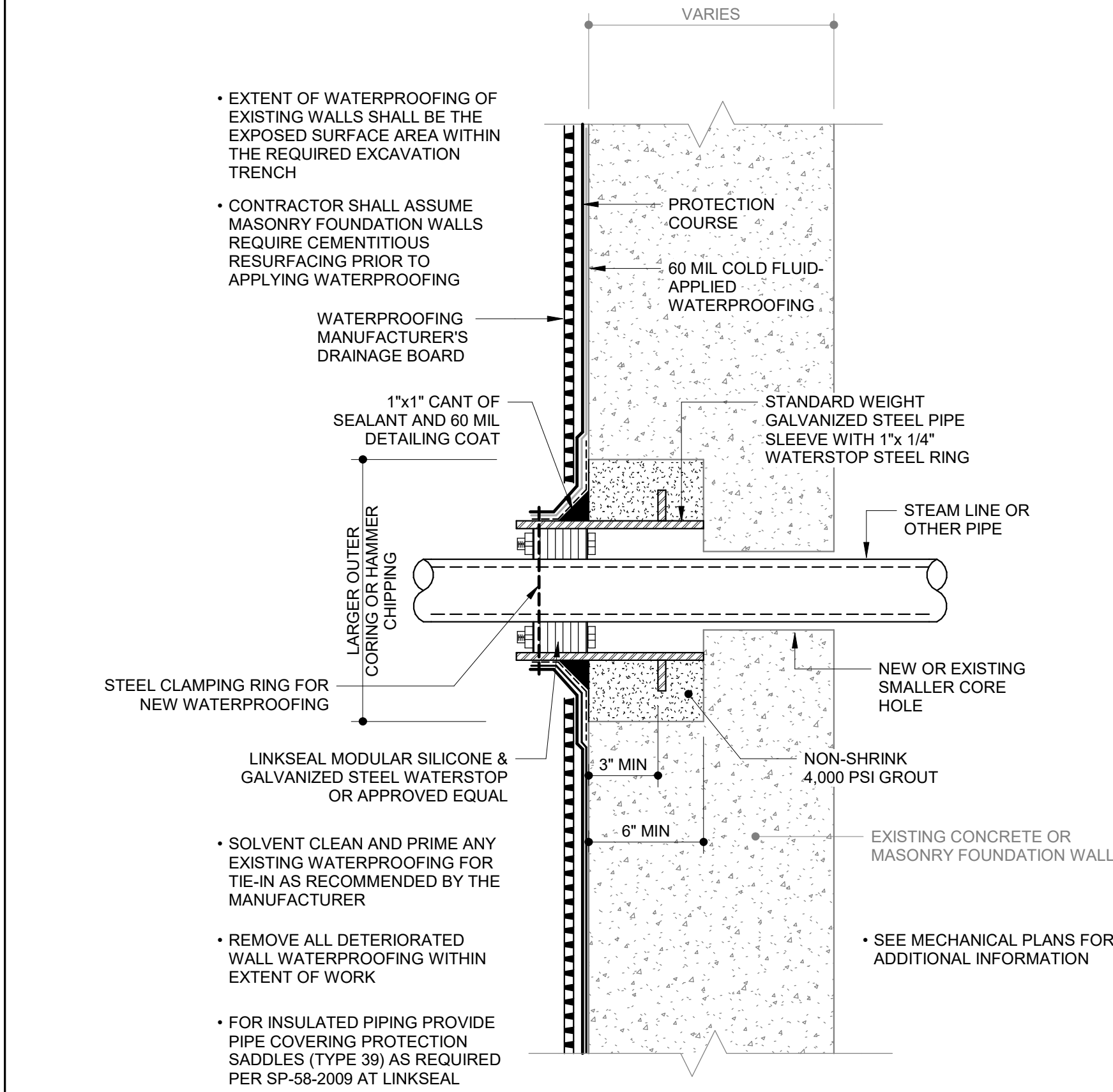
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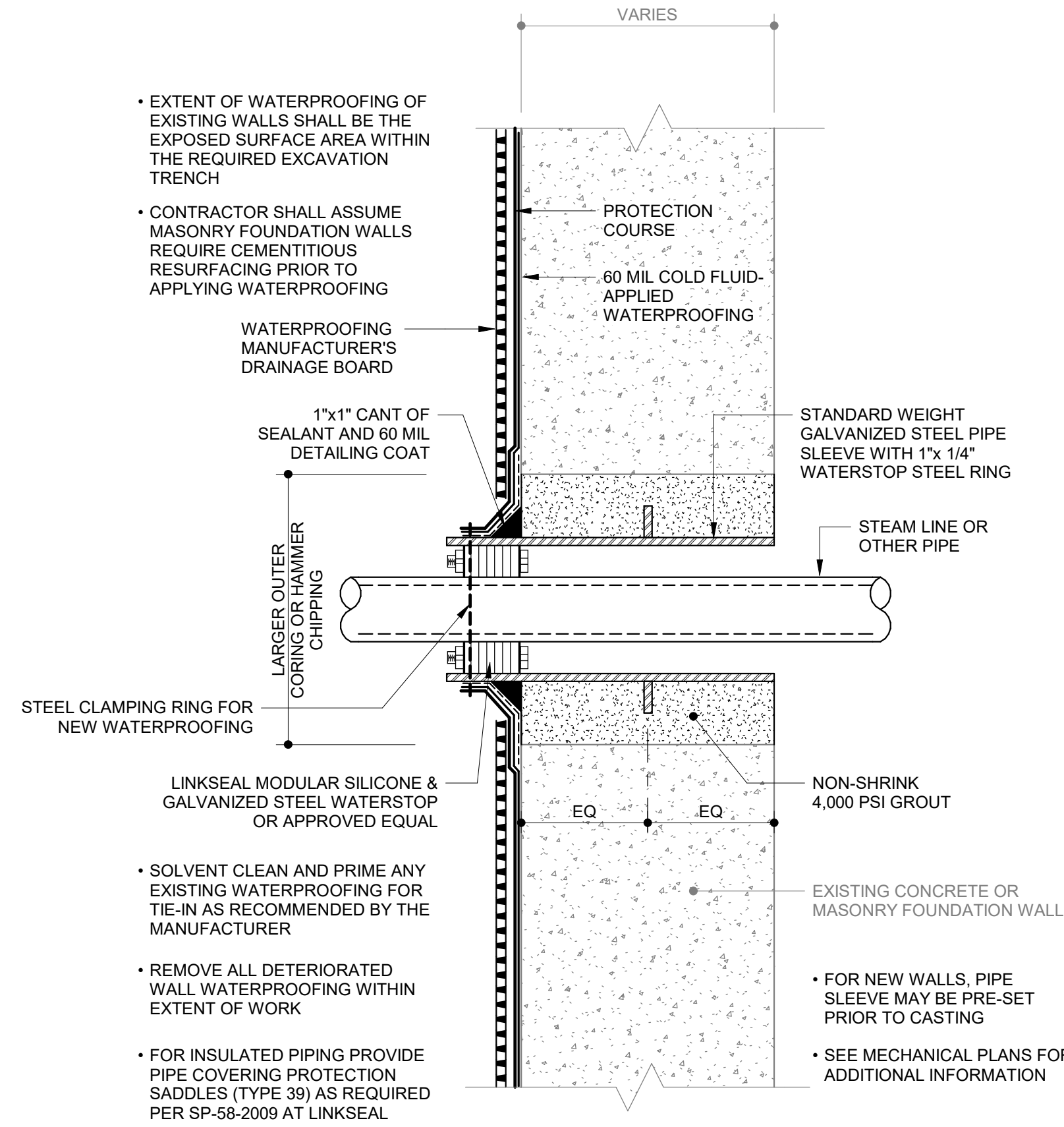
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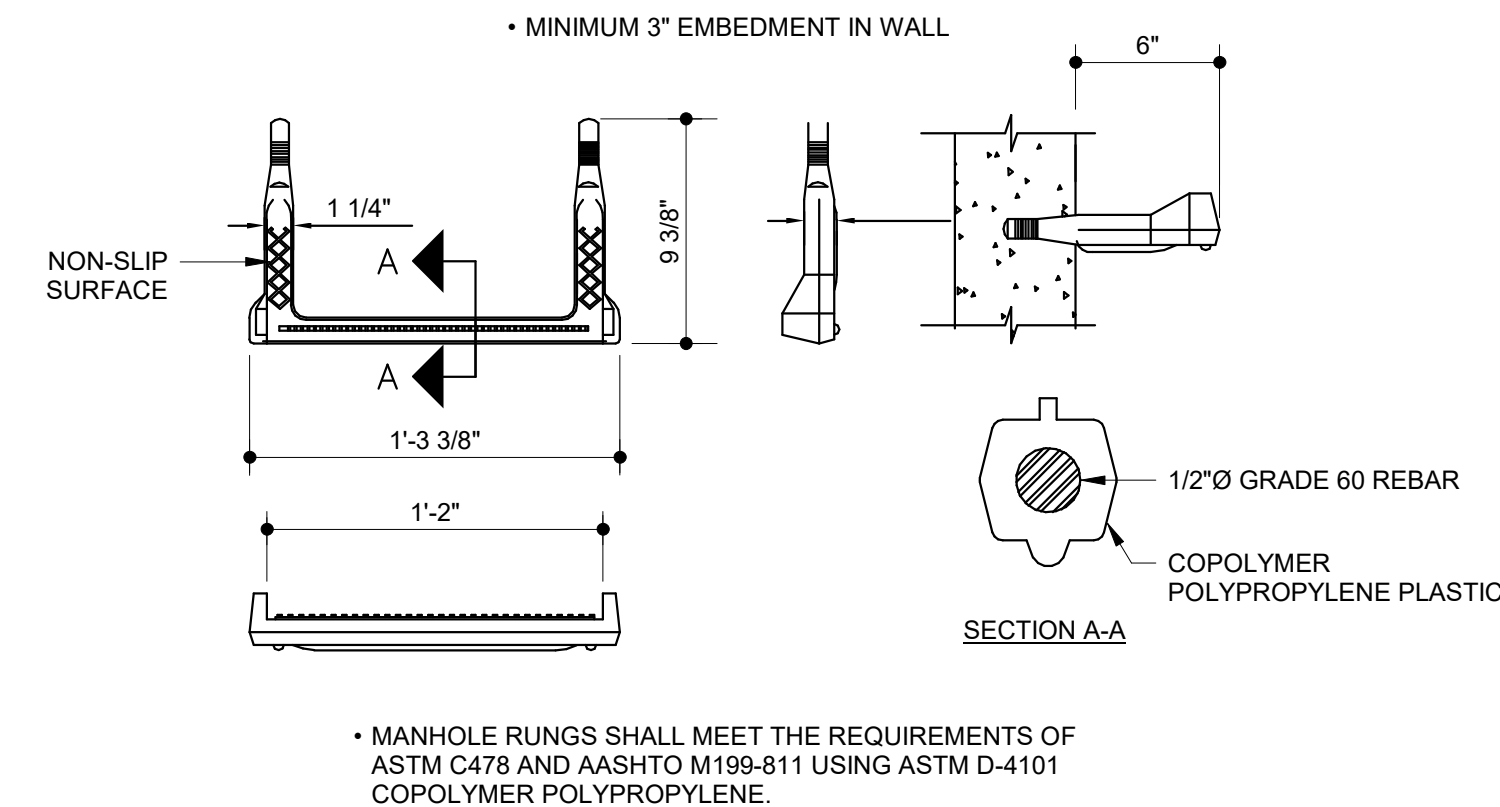
EXISTING WALLS 12" OR THICKER

1 FOUNDATION WALL PENETRATIONS  
3" = 1'-0"

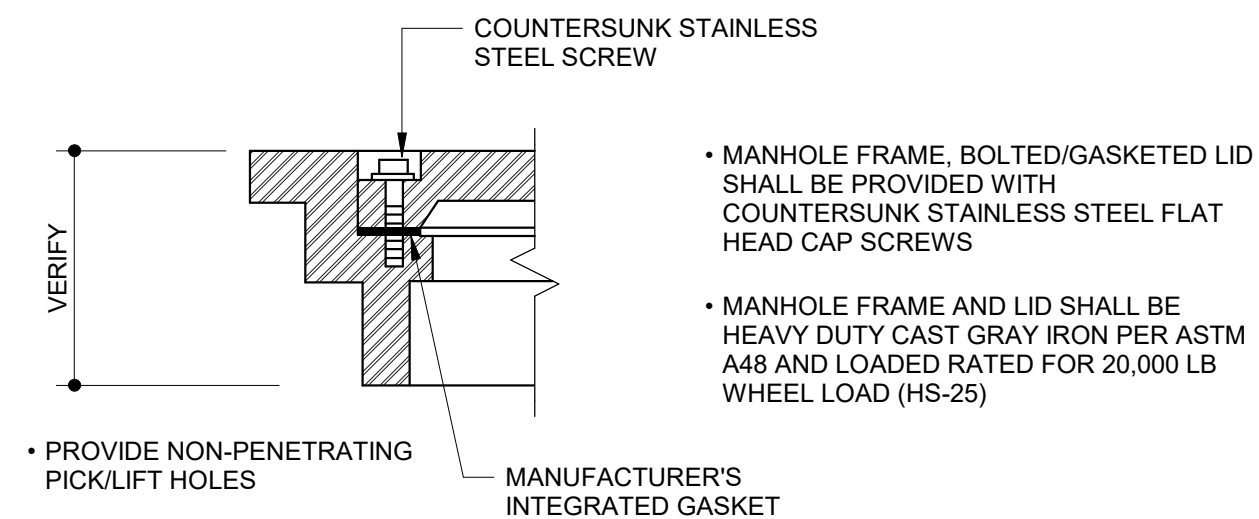


NEW OR EXISTING WALLS LESS THAN 12" THICK

2 FOUNDATION WALL PENETRATIONS  
3" = 1'-0"




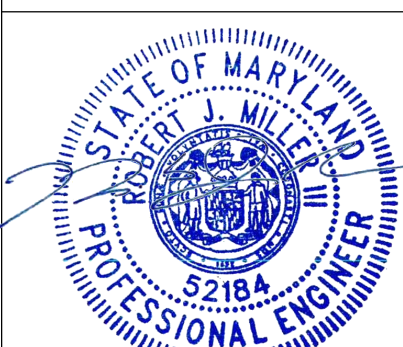
3 LADDER RUNG  
1 1/2" = 1'-0"



4 MANHOLE COVER  
1 1/2" = 1'-0"

Revisions:	Date:

SUBCONSULTANTS		
<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0900	<b>MORABITO CONSULTANTS, INC.</b> STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325
<b>A. MORTON THOMAS AND ASSOCIATES, INC.</b> CIVIL ENGINEER (LANDSCAPE) / SURVEY 800 KING FARM BOULEVARD, 4TH FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		

ARCH./ENGINEER OF RECORD	STAMP
<b>ENGINEERS:</b>  <b>VETERAN DESIGN &amp; CONSTRUCTION INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081	

<b>Office of Construction and Facilities Management</b>  U.S. Department of Veterans Affairs
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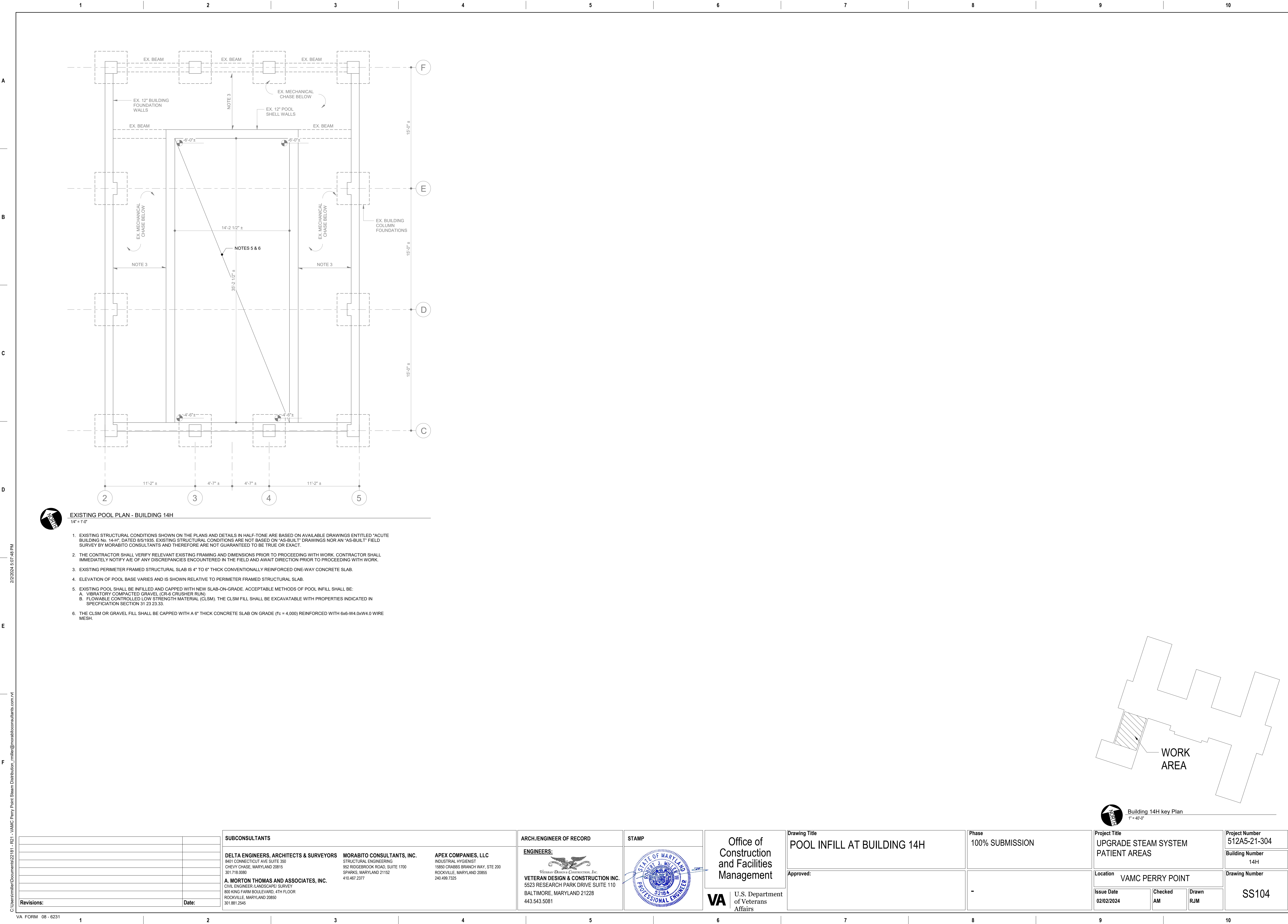
Drawing Title <b>TYPICAL STRUCTURAL DETAILS</b>
Approved:

Phase 100% SUBMISSION
-

Project Title <b>UPGRADE STEAM SYSTEM PATIENT AREAS</b>		
Location <b>VAMC PERRY POINT</b>		
Issue Date <b>02/02/2024</b>	Checked <b>AM</b>	Drawn <b>RJM</b>

Project Number <b>512A5-21-304</b>
Building Number
Drawing Number <b>SS103</b>





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		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title		Phase		Project Title			Project Number			
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0900			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377			APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325			POOL INFILL AT BUILDING 14H		100% SUBMISSION		UPGRADE STEAM SYSTEM PATIENT AREAS			512A5-21-304			
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE) / SURVEY 800 KING FARM BOULEVARD, 4TH FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545			VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081					VA U.S. Department of Veterans Affairs		Approved:		-		Location VAMC PERRY POINT			Drawing Number		
Revisions:		Date:														Issue Date 02/02/2024		Checked AM		Drawn RJM	



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HAZMAT RECOMMENDATIONS

THE FOLLOWING IS A SERIES OF RECOMMENDATIONS THAT APEX PROPOSES BASED ON LABORATORY ANALYSIS AND CONDITIONS OF THE PROJECT AREAS AT THE TIME OF THE INSPECTION. APEX HAS THE EXPERIENCE AND RESOURCES AVAILABLE TO MANAGE HAZARDOUS BUILDING MATERIALS WITHIN THE BUILDING.

**ASBESTOS**

GRAY BLOCK PIPE INSULATION ON STEAM PIPES FOUND UNDERGROUND WITHIN THE HORIZONTAL TRENCHES, CONNECTING MANHOLES AND BUILDINGS WAS FOUND TO BE FRIABLE MATERIAL AND IN FAIR CONDITION. THIS MATERIAL CAN REMAIN IN THE TRENCH UNTIL SUCH A TIME THAT REMOVAL IS NECESSARY. WORK CAN BE PERFORMED IN THE MANHOLES WITH PROPER AWARENESS OF THE PRESENCES OF FRIABLE PIPE INSULATION WITHIN THE HORIZONTAL TRENCHES. SEE PHOTOGRAPH #74.

WHITE AND GRAY FLANGE GASKET ON PIPES IN THE BUILDING'S MECHANICAL ROOMS AND WITHIN THE MANHOLES WAS FOUND TO BE NONE FRIABLE ASBESTOS CONTAINING MATERIAL. THE GASKET AND FLANGE CAN BE REMOVED INTACT BY CUTTING THE PIPE WITHOUT DISMANTLING FLANGES. IF DISMANTLING OF THE FLANGES REQUIRED, REMOVAL OF GASKETS MUST BE PERFORMED BY ASBESTOS ABATEMENT CONTRACTOR. SEE PHOTOGRAPH #15.

WHITE TSI DEBRIS FOUND UNDER THE SWIMMING POOL CRAWLSPACE WAS FOUND TO BE FRIABLE ASBESTOS CONTAINING BUILDING MATERIAL. ABATEMENT CONTRACTOR MUST REMOVE THE TSI DEBRIS PRIOR TO DEMOLITION. SEE PHOTOGRAPH #16.

WHITE MUDDIED PIPE ELBOW INSULATION FOUND IN MECHANICAL ROOM OF BUILDING 17H FOUND TO BE NONE FRIABLE (ENCAPSULATED). REMOVE PROJECT IMPACTED ELBOWS PRIOR TO DISTURBANCE. THE REMAINING ELBOWS CAN REMAIN IN THE BUILDING UNDER OPERATION & MAINTENANCE (O&M) PLAN. SEE PHOTOGRAPH #23.

CORRUGATED PAPER INSULATION (AIR CELL) FOUND IN WALL CAVITY OF BUILDING 19H MECHANICAL ROOM WAS FOUND TO BE FRIABLE AND DAMAGED. REPAIR THE DAMAGE AND MANAGE THE REMINING INSULATION UNDER OPERATION & MAINTENANCE (O&M) PLAN. SEE PHOTOGRAPH #36.

WHITE SEAM SEALANT FOUND IN MECHANICAL ROOMS AND WEST END OF BUILDING 9H WAS FOUND TO BE NONE FRIABLE AND IN GOOD CONDITION. REMOVE PROJECT IMPACTED PIPE INSULATION PRIOR TO DISTURBANCE. THE REMAINING PIPE INSULATION CAN REMAIN IN THE BUILDING UNDER OPERATION & MAINTENANCE (O&M) PLAN. SEE PHOTOGRAPH #61.

WHITE WINDOW GLAZING COMPOUND FOUND IN MECHANICAL ROOM OF BUILDING 9H FOUND TO BE NONE FILLABLE AND FAIR CONDITION. REMOVE THE GLAZING COMPOUND PRIOR TO RENOVATION OR DEMOLITION. SEE PHOTOGRAPH #65.

MATERIALS SUSPECTED OF POTENTIALLY CONTAINING ASBESTOS WERE IDENTIFIED DURING THE INSPECTION AND SAMPLED FOR ASBESTOS CONTENT. SINCE ACMS ARE PRESENT WITHIN THE PROJECT AREAS, ACTIONS SHOULD BE TAKEN TO PREVENT FIBER RELEASE AND TO MINIMIZE EXPOSURE OF SUBCONTRACTORS TO ASBESTOS FIBERS. **APPENDIX B** CONTAINS A PHOTO LOG OF IDENTIFIED ACMS.

THE RENOVATION/DEMOLITION CONTRACTOR AND OTHER SUBCONTRACTORS WORKING WITHIN THE PROJECT AREAS SHOULD BE MADE AWARE OF THE LOCATIONS OF THE ACM AND THE POSSIBILITY OF CONCEALED SUSPECT ACM THAT COULD BE FOUND DURING RENOVATION ACTIVITIES. THEY SHOULD BE ADVISED TO NOT DISTURB THE IDENTIFIED ACM OR SUSPECT ACM.

ANY CONCEALED BUILDING MATERIALS DISCOVERED DURING RENOVATION/DEMOLITION ACTIVITIES, WHICH ARE SUSPECTED TO CONTAIN ASBESTOS, SHOULD BE SAMPLED BY A LICENSED ASBESTOS INSPECTOR AND ANALYZED BY NVLAP-ACCREDITED LABORATORY TO CONFIRM THE ABSENCE OR PRESENCE OF ASBESTOS PRIOR TO DISTURBING SUCH MATERIALS. IF THE MATERIALS ARE FOUND TO CONTAIN ASBESTOS, APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS WILL APPLY.

THE PROSPECTIVE ABATEMENT CONTRACTOR(S) SHOULD INDEPENDENTLY VERIFY QUANTITIES OF ACM PRESENT AND UNIQUE SITE CONDITIONS IN ORDER TO PREPARE A COST ESTIMATE AND FOR NOTIFICATION PURPOSES. NOTIFICATION TO THE PROPER AGENCY SHOULD BE SUBMITTED PRIOR TO COMMENCING ANY ABATEMENT ACTIVITIES.

A LICENSED ASBESTOS ABATEMENT CONTRACTOR MUST REMOVE ANY REGULATED ACM (RACM) WITHIN THE STATE OF MARYLAND. ABATEMENT ACTIVITIES MUST BE PERFORMED IN COMPLIANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.

**LEAD-BASED PAINT**

DAMAGED LEAD-BASED PAINT WAS IDENTIFIED IN THE SWIMMING POOL ROOM. THE DAMAGED PAINT AND ASSOCIATED PLASTER DEBRIS MUST BE REMOVED BY ACCREDITED LEAD ABATEMENT CONTRACTOR PRIOR TO RENOVATION OR DEMOLITION. SEE PHOTOGRAPH #5.

IT IS IMPORTANT TO NOTE THAT EVEN LOW CONCENTRATIONS OF LEAD IN PAINT (I.E., LESS THAN 0.7 MG/CM<sup>2</sup>) HAVE THE POTENTIAL TO RESULT IN SOME LEAD EXPOSURE TO WORKERS, PARTICULARLY CONSTRUCTION WORKERS INVOLVED WITH ACTIVITIES SUCH AS TORCH CUTTING AND WELDING METAL STRUCTURES, ABRASIVE BLASTING, OR SANDING PAINTED SURFACES. ALTHOUGH LOW LEAD CONCENTRATIONS IN CERTAIN MATERIALS MAY NOT MEET THE MARYLAND DEFINITION OF LEAD-BASED PAINT, WORK PRACTICES INVOLVING THE DISTURBANCE OF PAINTED SURFACES OR OTHER MATERIALS ARE COVERED UNDER THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION'S (OSHA'S) LEAD IN CONSTRUCTION STANDARD IN TITLE 29 OF THE CFR PART 1926.62. AS A RESULT, ALL CONSTRUCTION AND DEMOLITION ACTIVITIES INVOLVING LEAD-CONTAINING MATERIALS (REGARDLESS OF THE LEAD CONTENT) MUST COMPLY WITH THIS STANDARD, WHICH PRESCRIBES REQUIREMENTS FOR CONTRACTOR/WORKER EXPOSURE ASSESSMENT, WORKER PROTECTION, AND ENGINEERING CONTROLS.

THE DISPOSAL OF WASTE GENERATED DURING ANY RESTORATION, RENOVATION, OR DEMOLITION OPERATIONS, INCLUDING ITEMS COATED WITH LEAD PAINT, IS REGULATED BY EPA STANDARD 40 CFR 261, SUBPART C. THIS REGULATION REQUIRES THAT A TOXICITY CHARACTERISTIC LEACHING PROCEDURE (TCLP) TEST BE UTILIZED TO DETERMINE IF THE CONSTRUCTION DEBRIS IS CONSIDERED HAZARDOUS WASTE. A MATERIAL IS CONSIDERED HAZARDOUS IF IT IS IGNITABLE, REACTIVE, CORROSIVE, OR TOXIC.

**OTHER HAZARDOUS MATERIAL**

MERCURY HAZARDS

APEX IDENTIFIED APPROXIMATELY THIRTY (30) THERMOMETERS ON PIPES WITHIN THE PROJECT AREAS THAT ARE SUSPECTED TO CONTAIN MERCURY. APEX RECOMMENDS THAT MERCURY-CONTAINING COMPONENTS IDENTIFIED IN THE PROJECT AREA BE PROPERLY RECYCLED PRIOR TO DEMOLITION/RENOVATION PROJECT.


**PCBS (POLYCHLORINATED BIPHENYLS)**

NO PCB SUSPECT MATERIALS WILL BE DISTURBED WITHIN THE PROJECT AREAS.

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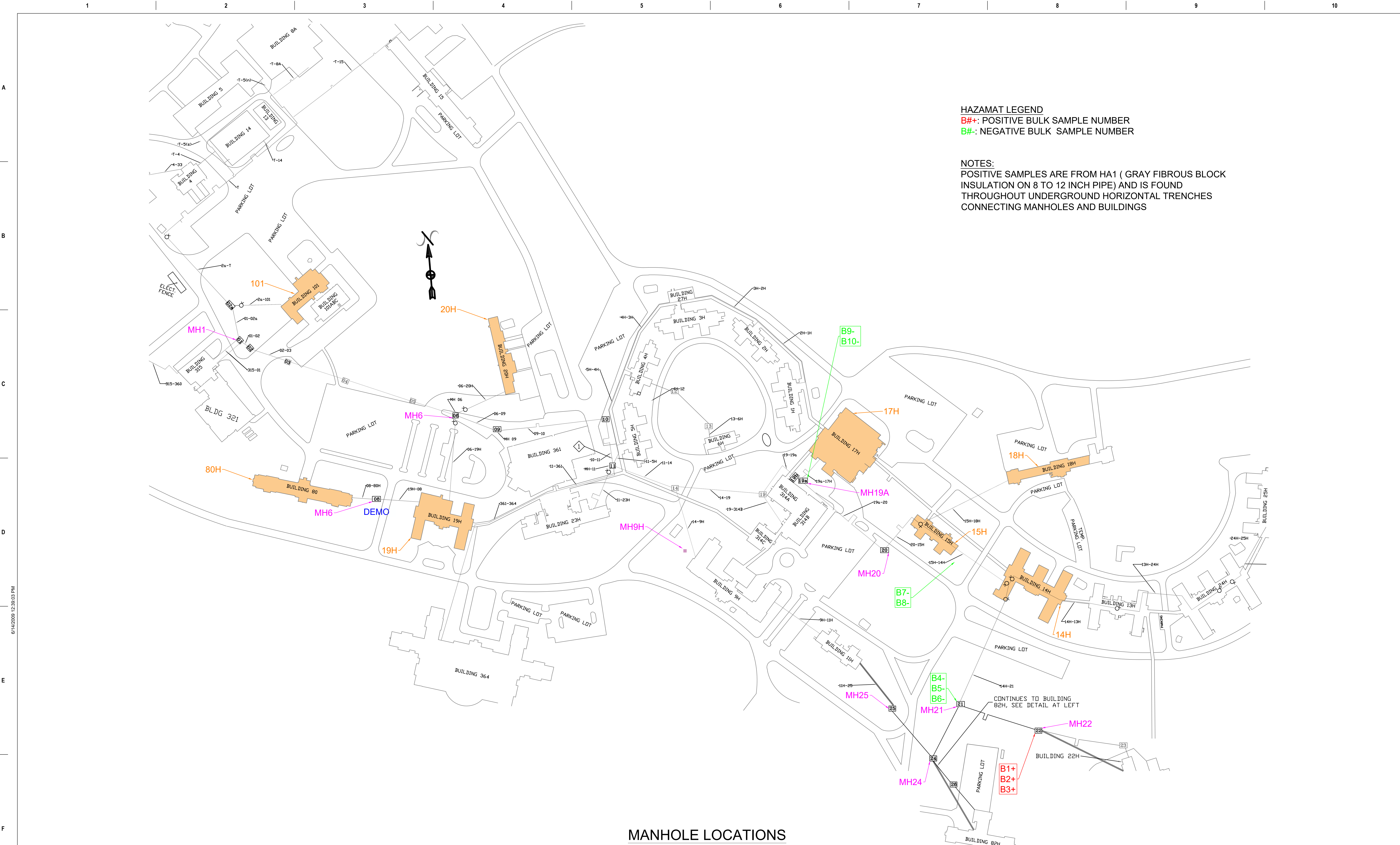
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		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number	
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	MORABITO CONSULTANTS, INC. 552 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081			NOTES SHEET	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS	512A5-21-304	
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE)/SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545					Approved: Project Director			Location VAMC PERRY POINT	Drawing Number H101	
Revisions:	Date:									Issue Date 02/02/2024	Checked -	Drawn -

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HAZAMAT LEGEND  
B#+: POSITIVE BULK SAMPLE NUMBER  
B#-: NEGATIVE BULK SAMPLE NUMBER

NOTES:  
POSITIVE SAMPLES ARE FROM HA1 ( GRAY FIBROUS BLOCK INSULATION ON 8 TO 12 INCH PIPE) AND IS FOUND THROUGHOUT UNDERGROUND HORIZONTAL TRENCHES CONNECTING MANHOLES AND BUILDINGS

MANHOLE LOCATIONS

		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD		STAMP	Office of Construction and Facilities Management		Drawing Title		Phase	Project Title			Project Number			
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080 A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER LANDSCAPE SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 9552 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377					APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325		PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081	MANHOLE LOCATIONS	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS			512A5-21-304	
Revisions:		Date:							VA   U.S. Department of Veterans Affairs		Approved: Project Director		-	Location			Drawing Number		
														VAMC PERRY POINT			H102		
														Issue Date		Checked	Drawn		
														02/02/2024		-	-		





AREA DESIGNATION LEGEND:

- ① : MECHANICAL ROOM LOWER LEVEL
- ② : SWIMMING POOL
- ③ : LOCKER ROOM
- ④ : CRAWLSPACE UNDERNEATH SWIMMING POOL

HAZMAT LEGEND:

- : ASSUMED ASBESTOS CONTAINING ASPHALT WATER PROOFING
- B#+** : POSITIVE ASBESTOS BULK SAMPLE
- B#-** : NEGATIVE ASBESTOS BULK SAMPLE
- ① : AREA DESIGNATION
- FD** : ASSUMED FIRE DOOR CONTAINING ASBESTOS
- HA#** : HOMOGENEOUS MATERIAL ID

NOTES:

- 1. REFER TO HAZMAT INSPECTION REPORT FOR HA DESCRIPTION DETAIL

OTHER HAZMATs:

- (20) 4ft FLUORESCENT LIGHTS
- ACM DEBRIS FOUND IN CRAWLSPACE UNDER SWIMMING POOL

COMPONENTS POSITIVE FOR LEAD:

- DOOR FRAMES AND JAMBS
- WHITE CONCRETE WALLS
- WHITE PLASTER WALLS
- GREEN CERAMIC WALLS

BUILDING 14H-BASEMENT

		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD		STAMP		<div>Office of Construction and Facilities Management</div> <div>VAU.S. Department of Veterans Affairs</div>		Drawing Title BUILDING 14H - BASEMENT		Phase 100% SUBMISSION		Project Title UPGRADE STEAM SYSTEM PATIENT AREAS			Project Number 512A5-21-304	
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS 8401 CONNECTICUT AVE, SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.487.2377			APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.1325			Building Number								
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER /LANDSCAPE/ SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545						VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081			Approved: Project Director		Location VAMC PERRY POINT			Drawing Number H103			
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Revisions:		Date:									Issue Date 02/02/2024							Checked -	



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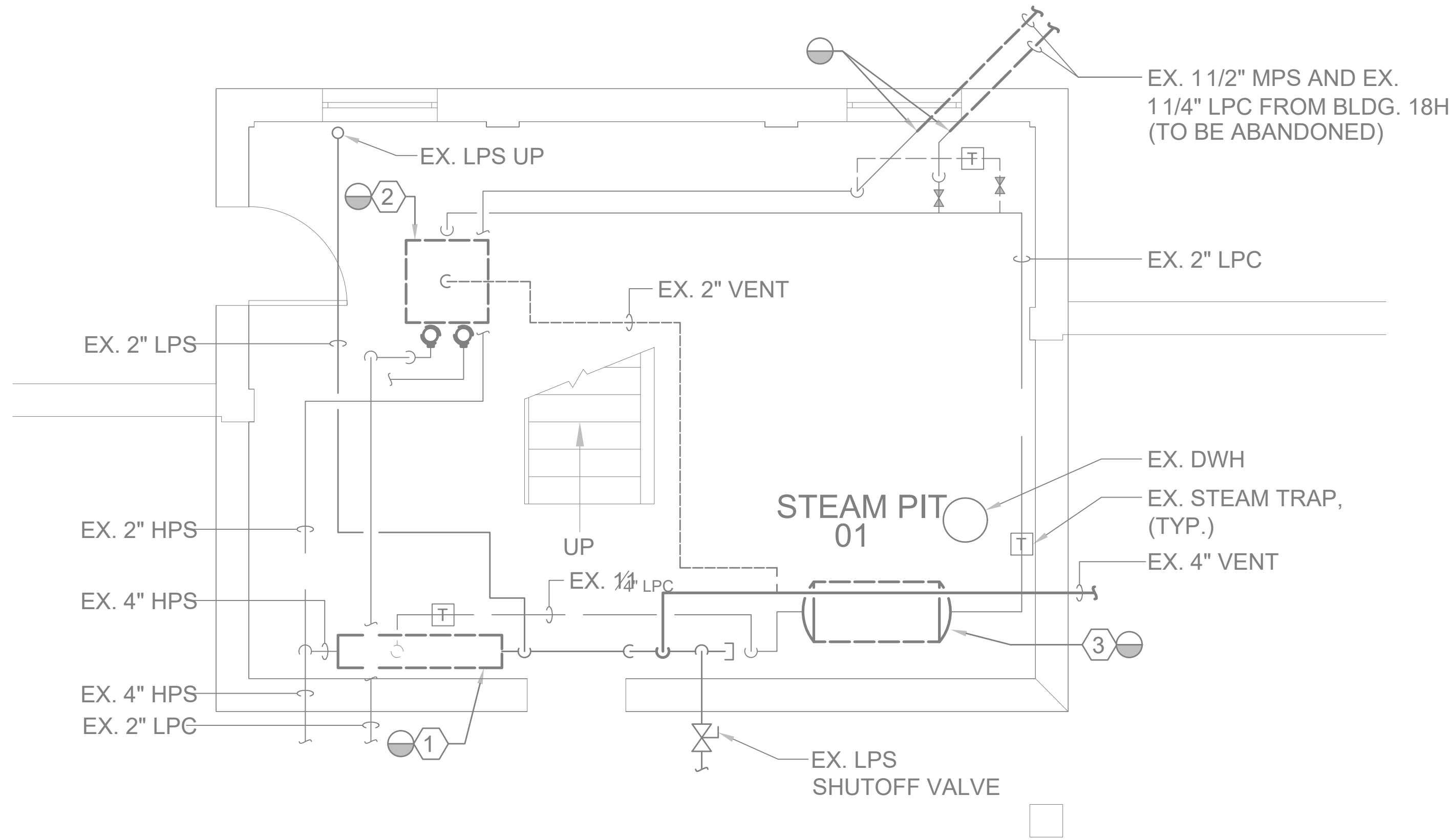
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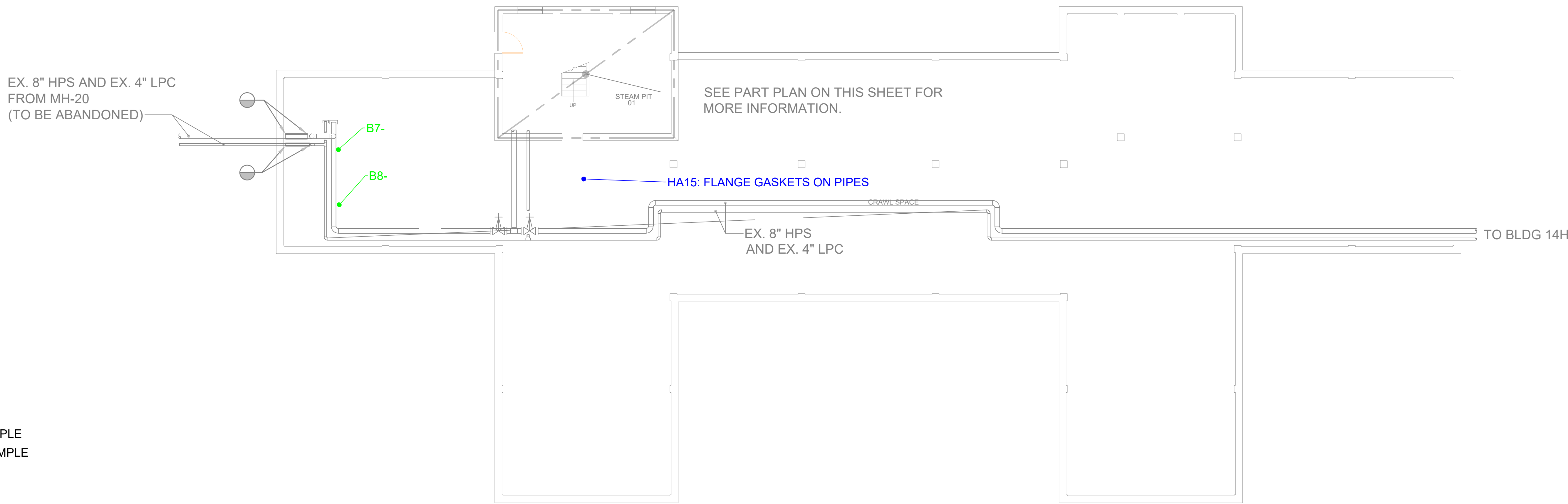
- B# + : POSITIVE ASBESTOS BULK SAMPLE
- B# - : NEGATIVE ASBESTOS BULK SAMPLE
- HA# : HOMOGENEOUS MATERIAL ID

NOTES:

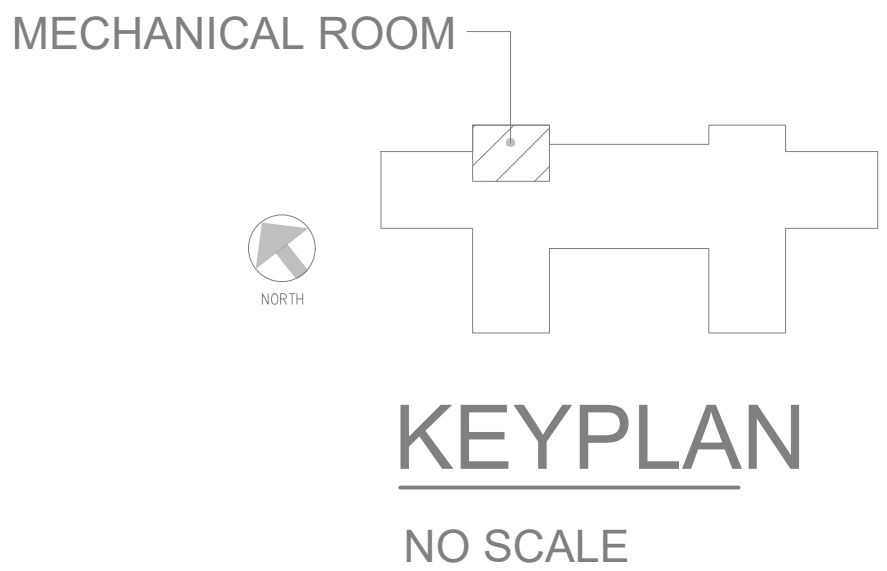
- REFER TO HAZMAT INSPECTION REPORT FOR HA DESCRIPTION DETAIL



MECHANICAL ROOM PART PLAN - STEAM PIPING - DEMO



BUILDING 15H - BASEMENT



		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number	
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS			MORABITO CONSULTANTS, INC.		PRIME A/E:				BUILDING 15H - BASEMENT		100% SUBMISSION		UPGRADE STEAM SYSTEM PATIENT AREAS		512A5-21-304	
		APEX COMPANIES, LLC			VETERAN DESIGN & CONSTRUCTION INC.						Approved: Project Director		-		Location		Building Number	
		A. MORTON THOMAS AND ASSOCIATES, INC.			INDUSTRIAL HYGIENIST		VETERAN DESIGN & CONSTRUCTION INC.								VAMC PERRY POINT		Drawing Number	
		8401 CONNECTICUT AVE SUITE 350			952 RIDGEBROOK ROAD, SUITE 1700		5523 RESEARCH PARK DRIVE SUITE 110										H104	
		CHEVY CHASE, MARYLAND 20815			SPARKS, MARYLAND 21152		BALTIMORE, MARYLAND 21228											
		301.718.0080			410.467.2377		443.543.5081											
		700 KING FARM BOULEVARD, 3RD FLOOR																
		ROCKVILLE, MARYLAND 20850																
		301.881.2545																
Revisions:		Date:																






**HAZMAT LEGEND:**  
: ASSUMED ASBESTOS CONTAINING ASPHALT WATER PROOFING  
B#+ : POSITIVE ASBESTOS BULK SAMPLE  
B#- : NEGATIVE ASBESTOS BULK SAMPLE  
FD : ASSUMED FIRE DOOR CONTAINING ASBESTOS  
HA# : HOMOGENEOUS MATERIAL ID

**NOTES:**  
1. REFER TO HAZMAT INSPECTION REPORT  
FOR HA DESCRIPTION DETAIL

BUILDING 17H - BASEMENT

		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD		STAMP		<div>Office of Construction and Facilities Management</div> <div>VA   U.S. Department of Veterans Affairs</div>	Drawing Title BUILDING 17H - BASEMENT		Phase 100% SUBMISSION		Project Title UPGRADE STEAM SYSTEM PATIENT AREAS		Project Number 512A5-21-304				
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377			APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325			PRIME A/E:  VETERAN DESIGN & CONSTRUCTION, INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081				Building Number					
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER/LANDSCAPE/SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545									Approved: Project Director				Location VAMC PERRY POINT		Drawing Number H105			
													-							
Revisions:		Date:													Issue Date 02/02/2024		Checked -		Drawn -	






**HAZMAT LEGEND:**  
: ASSUMED ASBESTOS CONTAINING ASPHALT WATER PROOFING  
B# - : NEGATIVE ASBESTOS BULK SAMPLE  
FD : ASSUMED FIRE DOOR CONTAINING ASBESTOS  
HA# : HOMOGENEOUS MATERIAL ID

**NOTES:**  
1. REFER TO HAZMAT INSPECTION REPORT  
FOR HA DESCRIPTION DETAIL


BUILDING 18H - FIRST FLOOR

		SUBCONSULTANTS			ARCH/ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title		Phase		Project Title			Project Number			
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEER 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377			APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325			PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		BUILDING 18H - FIRST FLOOR		100% SUBMISSION		UPGRADE STEAM SYSTEM PATIENT AREAS			512A5-21-304	
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE/ SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545										Approved: Project Director					Building Number				
														Location			Drawing Number				
Revisions:		Date:								VA		U.S. Department of Veterans Affairs		-		VAMC PERRY POINT			H106		
														Issue Date		Checked		Drawn			
														02/02/2024		-		-			

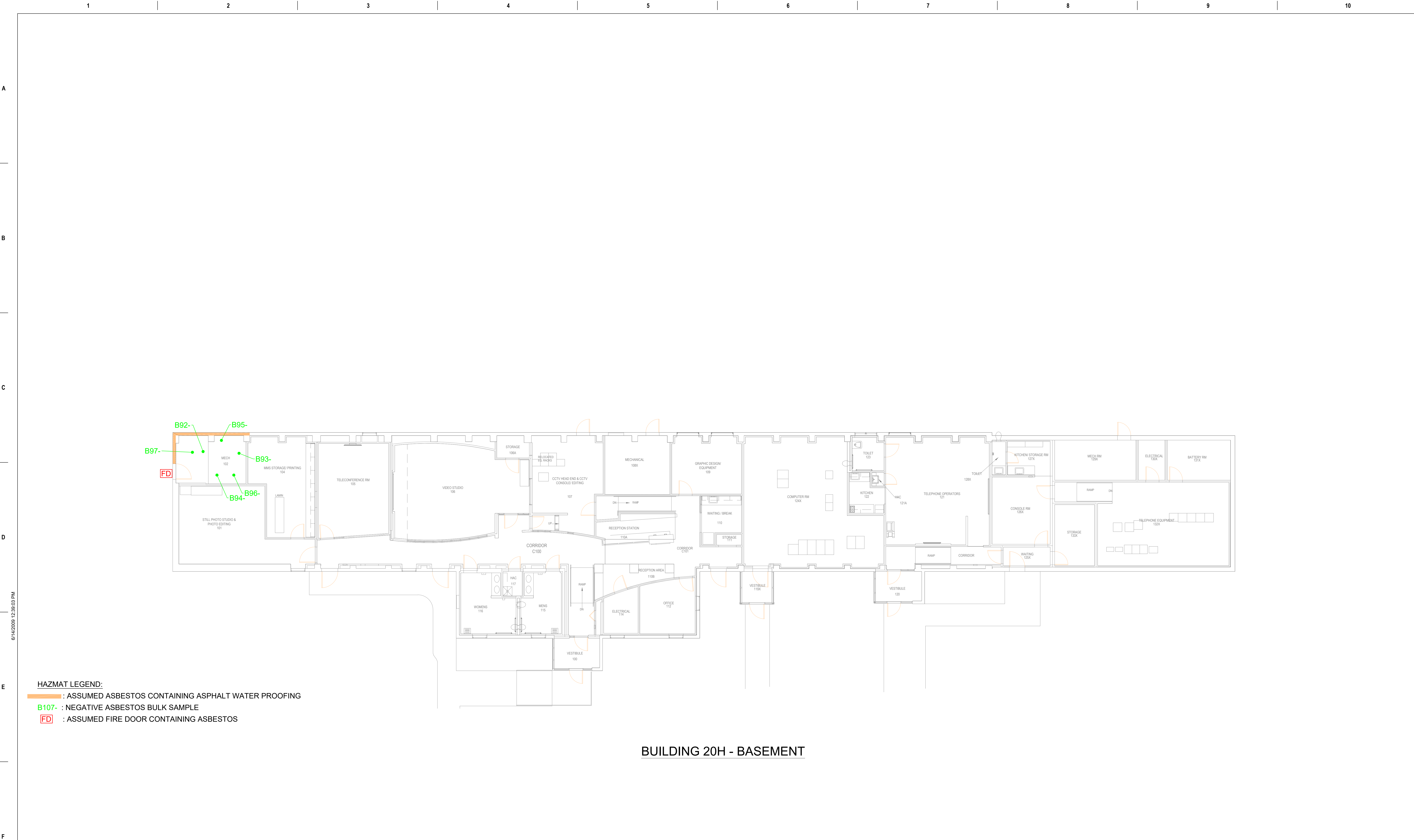




BUILDING 19H - BASEMENT

		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD		STAMP		<div>Office of Construction and Facilities Management</div> <div>VA<div>U.S. Department of Veterans Affairs</div></div>		Drawing Title BUILDING 19H - BASEMENT		Phase 100% SUBMISSION		Project Title UPGRADE STEAM SYSTEM PATIENT AREAS		Project Number 512A5-21-304			
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377			APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325					Building Number							
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER/LANDSCAPE/SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545			PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081						Approved: Project Director				Location VAMC PERRY POINT		Drawing Number H107			
Revisions:		Date:											-		Issue Date 02/02/2024		Checked -		Drawn -	





**HAZMAT LEGEND:**  
: ASSUMED ASBESTOS CONTAINING ASPHALT WATER PROOFING  
B107- : NEGATIVE ASBESTOS BULK SAMPLE  
FD : ASSUMED FIRE DOOR CONTAINING ASBESTOS

BUILDING 20H - BASEMENT

		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number			
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS			MORABITO CONSULTANTS, INC.		APEX COMPANIES, LLC				PRIME A/E:		BUILDING 20H - BASEMENT		100% SUBMISSION		UPGRADE STEAM SYSTEM PATIENT AREAS		512A5-21-304	
		8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377		INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325				VETERAN DESIGN & CONSTRUCTION, INC.		Approved: Project Director				Location		Drawing Number	
		A. MORTON THOMAS AND ASSOCIATES, INC.					VETERAN DESIGN & CONSTRUCTION INC.		5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081				-		VAMC PERRY POINT		H108			
		CIVIL ENGINEER, LANDSCAPE/SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545											Issue Date		Checked		Drawn			
Revisions:		Date:											02/02/2024		-		-			





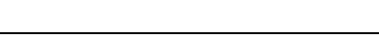
HAZMAT LEGEND:

- HA15: FLANGE GASKET ON PIPES
- B# - : NEGATIVE ASBESTOS BULK SAMPLE

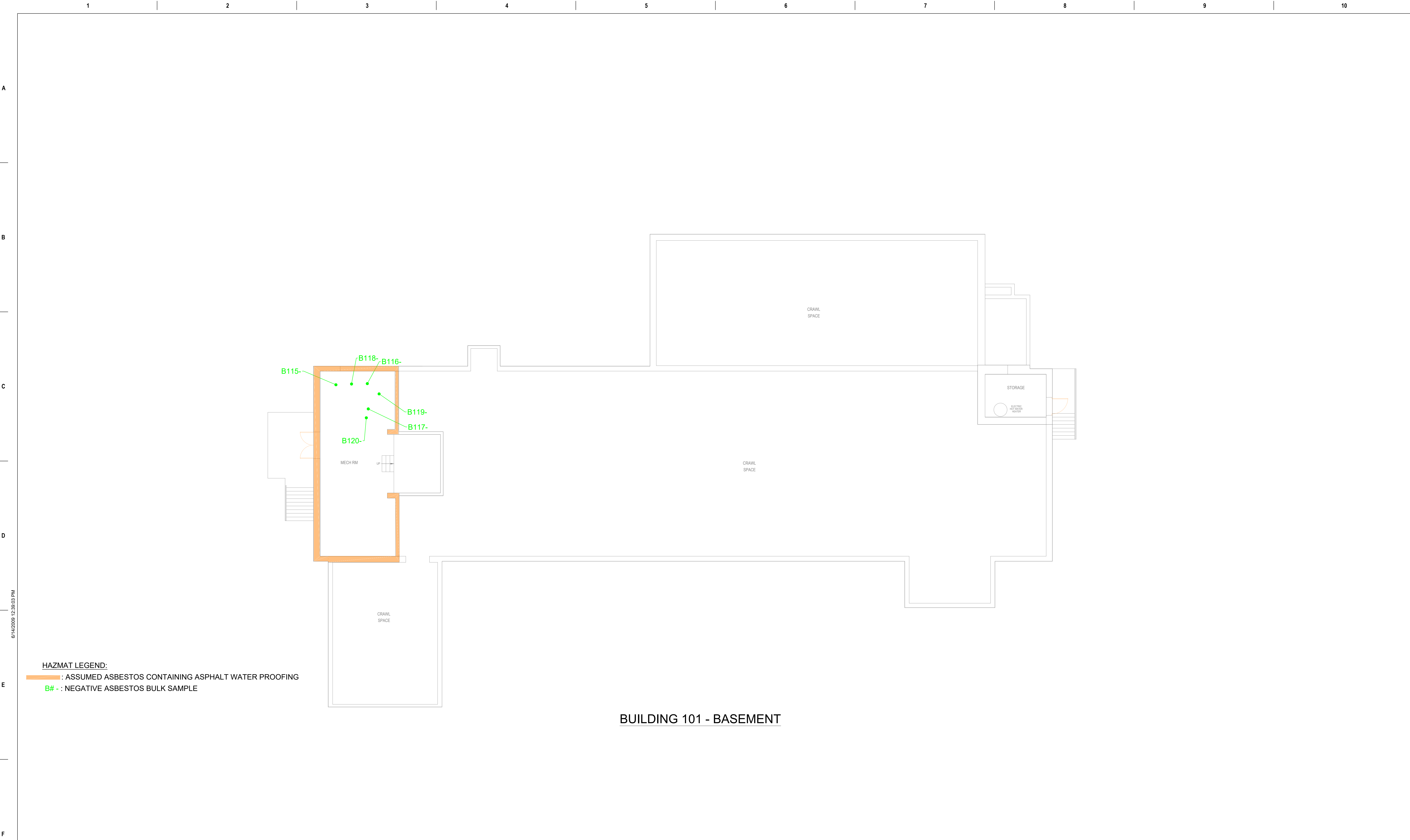
OTHER HAZMATs:


- LEAD PAINT IN WHITE CERAMIC WALLS THROUGHOUT

BUILDING 80H - BASEMENT

Revisions:		Date:		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title		Phase		Project Title		Project Number					
				DELTA ENGINEERS, ARCHITECTS & SURVEYORS 8401 CONNECTICUT AVE, SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377			APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325			PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		BUILDING 80H - BASEMENT		100% SUBMISSION		UPGRADE STEAM SYSTEM PATIENT AREAS		512A5-21-304			
				A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER /LANDSCAPE/ SURVEY/ 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545									Approved: Project Director				VAMC PERRY POINT		Drawing Number					
															-		Issue Date 02/02/2024		Checked -		Drawn -		H109	





		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management	Drawing Title BUILDING 101 - BASEMENT		Phase 100% SUBMISSION		Project Title UPGRADE STEAM SYSTEM PATIENT AREAS			Project Number 512A5-21-304		
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377			APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325			PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081								
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER/LANDSCAPE/SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545									Approved: Project Director		-		Location VAMC PERRY POINT			Drawing Number H110	
Revisions:		Date:											Issue Date 02/02/2024		Checked -		Drawn -		



## GENERAL NOTES - MECHANICAL & PLUMBING

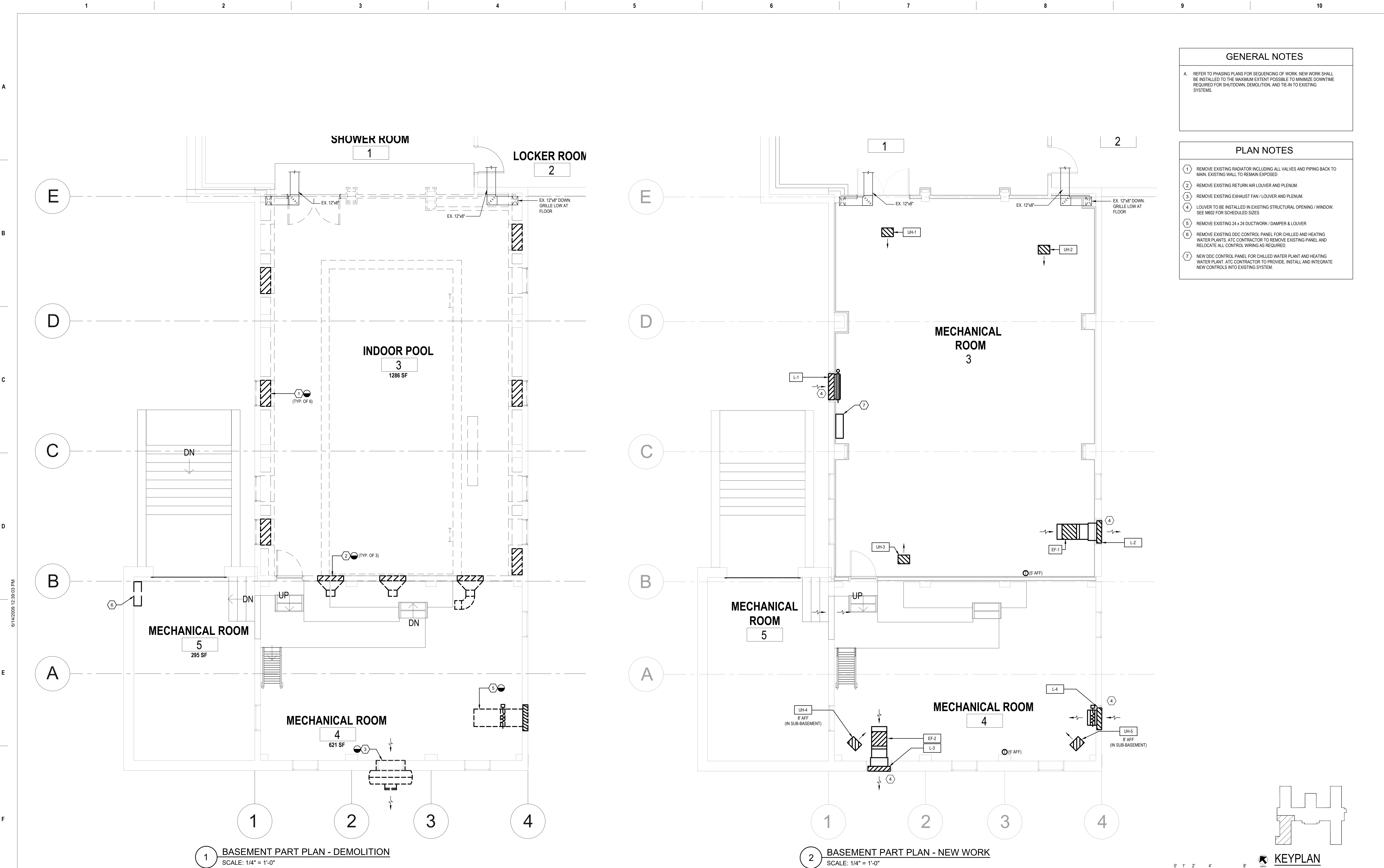
1. ALL WORK SHALL CONFORM TO LATEST INTERNATIONAL MECHANICAL AND PLUMBING CODES; VA STEAM, HEATING HOT WATER, AND OUTSIDE DISTRIBUTION SYSTEMS DESIGN MANUAL; VA HVAC AND PLUMBING DESIGN MANUAL.
2. THE WORK SHALL BE COORDINATED WITH ARCHITECTURAL, CIVIL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. CONTRACTOR SHALL BE REQUIRED TO FURNISH, INSTALL AND CONNECT WITH APPROPRIATE SERVICES ALL ITEMS SHOWN ON THE DRAWING AT NO ADDITIONAL COST TO OWNER.
3. THE CONTRACTOR SHALL REVIEW THE WORK AND SHALL COORDINATE WITH THE WORK OF OTHER TRADES.
4. SLEEVE AND SEAL ALL PIPING PASSING THROUGH WALLS, FLOORS AND ROOF UNLESS NOTED OTHERWISE.
5. ALL HANGERS AND SUPPORTS SHALL BE SECURED TO STRUCTURE ABOVE.
6. ALL CUTTING, PATCHING AND REPAIR WORK SHALL BE THE RESPONSIBILITY OF THE TRADE INVOLVED.
7. ALL INSULATION, FITTINGS, COVERS AND FINISHES SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25 AND A MAXIMUM SMOKE DEVELOPED RATING OF 50 AND ALL BE IN COMPLIANCE WITH NFPA 90A. REFER TO SPECIFICATIONS.
8. ALL OUTSIDE AIR INTAKE AND EXHAUST LOUVERS SHALL HAVE WIRE MESH SCREENS. MINIMUM FREE AREA SHALL BE 50%.
9. COORDINATE THE PAINT FINISH OF ALL EXTERIOR LOUVERS WITH THE ARCHITECT.
10. ALL CORE DRILLING, CUTTING AND PATCHING SHALL BE DONE BY THE TRADE. PROVIDE FOR X-RAY OR GPR OF ALL PENETRATIONS THRU STRUCTURAL SLAB OR WALLS.
11. ALL SLAB PENETRATIONS AND PENETRATIONS THRU RATED WALLS SHALL BE PROVIDED WITH APPROVED FIRE STOP MATERIAL.
12. ALL EQUIPMENT SHALL BE INSTALLED IN SUCH A WAY TO FACILITATE MAINTENANCE & REPAIR AND TO ENSURE FACTORY REQUIRED CLEARANCES ARE MET.
13. PROVIDE DETAILED COORDINATED SHOP DRAWINGS (SHEET METAL, PIPING ETC.) TO ENSURE ALL SYSTEMS ARE COORDINATED AND ALL REQUIRED CEILING HEIGHTS CAN BE ACCOMMODATED.
14. ALL LOUVERS SHALL BE INSTALLED FLUSH WITH EXTERIOR WALLS.
15. ALL SPECIFICATIONS AND DRAWINGS I.E. ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION, AND ELECTRICAL, ARE COMPLEMENTARY AND MUST BE USED IN COMBINATION TO OBTAIN COMPLETE CONSTRUCTION INFORMATION.
16. ANY INFORMATION CONFLICTS WITHIN THE SPECIFICATIONS AND/OR DRAWINGS SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNTIL ALL CONFLICTS ARE RESOLVED AND THE CLARIFYING INFORMATION IS ISSUED.
17. ALL SANITARY AND STORM PIPING LESS THAN 3" SHALL BE INSTALLED WITH A 1/4" PER FT. GRADE AND NOT LESS THAN 1/8" PER FT. GRADE FOR PIPING 3" AND LARGER UNLESS NOTED OR INDICATED OTHERWISE. PROVIDE CLEANOUTS ON ALL SEWER PIPING (HORIZONTAL AND VERTICAL) WHERE INDICATED AND/OR REQUIRED BY CODE.
18. COORDINATE ALL PIPING TO BE INSTALLED WITH ALL OTHER TRADES, I.E. MECHANICAL, FIRE PROTECTION, AND ELECTRICAL TO ENSURE THAT ALL PIPING SYSTEMS ARE INSTALLED ABOVE FINISHED CEILING OR IN A CONCEALED SPACE.
19. ALL CUTTING, DRILLING, AND PATCHING OF WALLS, FLOORS, AND/OR STRUCTURAL MEMBERS FOR THE INSTALLATION OF PLUMBING SYSTEMS SHALL BE PROVIDED. STRUCTURAL COMPONENTS SHALL NOT BE CUT, DRILLED, OR MODIFIED IN ANY WAY WITHOUT THE STRUCTURAL ENGINEER'S REVIEW AND PRIOR APPROVAL.
20. PIPING OR EQUIPMENT SHALL NOT BE SUPPORTED FROM STRUCTURAL MEMBER WITHOUT PRIOR REVIEW AND APPROVAL FROM THE STRUCTURAL ENGINEER.
21. ALL BACKFLOW PREVENTER ASSEMBLIES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION. PIPE RELIEF OUTLET, IF APPLICABLE, SHALL DISCHARGE TO NEAREST FLOOR DRAIN.
22. PROVIDE FLOAT TYPE BACKWATER VALVE (SIZED FOR ANTICIPATED FLOW RATE) IN ALL OPEN SITE DRAINS AND FLOOR RECEPTORS RECEIVING AC CONDENSATE, AND/OR CLEAR WATER WASTE SUCH AS SPRINKLER FLOW TESTING.
23. ALL PIPING SYSTEMS, VALVES, AND EQUIPMENT SHALL BE PROPERLY IDENTIFIED.
24. ALL PIPING, VALVES, AND ACCESSORIES SERVING EQUIPMENT SHALL BE INSTALLED TO ALLOW SERVICING AND/OR REMOVAL WITHOUT DISCONNECTING ALL PIPING AND ACCESSORIES.
25. ALL VALVES SHALL HAVE THEIR NORMAL (IN OPERATION) POSITION IDENTIFIED, SUCH AS "NORMALLY OPEN" OR "NORMALLY CLOSED."
26. EXPANSION LOOPS AND ANCHORS SHALL BE PROVIDED ON ALL PIPING SYSTEMS WHICH CROSS BUILDING EXPANSION JOINTS AND ALL HORIZONTAL PIPING LENGTHS EXCEEDING 100 FT. OR EACH PORTION THEREOF.
27. ALL NECESSARY EQUIPMENT SHALL BE PROVIDED ON ALL PIPING, UNIONS, VALVES, VACUUM BREAKERS, STRAINERS, ETC. AS REQUIRED TO CONNECT EQUIPMENT AT LOCATION SHOWN, AND TO MAKE FULLY OPERABLE IN ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS.
28. DRAINS AND CLEANOUTS SHALL BE INSTALLED AS SPECIFIED AND IN LOCATIONS SHOWN ON DRAWINGS. REFER TO THE DRAIN SCHEDULE, IF APPLICABLE.
29. THESE DRAWINGS ARE SCHEMATIC AND ARE INTENDED TO CONVEY A FUNCTIONAL SYSTEMS AND TO DEPICT THE GENERAL LOCATION OF THE SYSTEMS' COMPONENTS.
30. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF WORK WITH THE WORK OF OTHER TRADES. MINOR DEVIATIONS FROM THE PLANS MAY BE MADE TO AVOID MINOR CONFLICTS. WHEN MAJOR CONFLICTS ARE APPARENT, THE CONTRACT OFFICER SHALL BE ADVISED IMMEDIATELY AND AFFECTED WORK SHALL NOT BE CONSIDERED UNTIL THE CONFLICT HAS BEEN RESOLVED.
31. THE CONTRACTOR SHALL VERIFY ALL VOLTAGE AND POWER REQUIREMENTS FOR ALL EQUIPMENT AND COORDINATE WITH THE CONTRACT DRAWINGS PRIOR TO ISSUANCE OF SHOP DRAWINGS AND PURCHASE OF EQUIPMENT.
32. ALL SYSTEMS SHALL BE CLEAN OF FOREIGN MATERIAL AND ROUGH SPOTS PRIOR TO BEING PLACED IN SERVICE AND BEFORE OPERATIONAL TESTS ARE PERFORMED.
33. INSTALLATION OF ALL EQUIPMENT AND THEIR ACCESSORIES SHALL BE PER MANUFACTURER'S PUBLISHED RECOMMENDATIONS.
34. PROVIDE TRAP PRIMER VALVES FOR ALL DRAINS WHICH REQUIRE A SOURCE OF WATER SUPPLY TO MAINTAIN TRAP SEAL. PRIMER VALVES SHALL BE CONNECTED TO THE NEAREST COLD WATER LINE SERVING A FUTURE.
35. INSULATE ALL HORIZONTAL STORM PIPING INCLUDING DRAIN BODY.
36. EXISTING STEAM AND CONDENSATE PIPING INSULATION HAS ASBESTOS CONTAINING MATERIALS. REFER TO DRAWINGS AND SPECIFICATIONS FOR LOCATIONS AND PROCEDURES FOR REMOVAL.
37. INSTALLATION OF DIRECT-BURIED STEAM AND CONDENSATE PIPING, INCLUDING BENDS, WELDS, DRAINS, AND VENT SHALL BE DONE PER PRE-MANUFACTURER PIPING INSTALLATION GUIDELINES AND RECOMMENDATIONS.
38. GRADE STEAM AND CONDENSATE RETURN MAINS DOWNWARD AT UNIFORM SLOPE OF 2 INCH IN 40 FEET IN DIRECTION OF FLOW, UNLESS OTHERWISE INDICATED. GRADE UDDERUPP RUNOUTS AT MINIMUM OF 1/2-INCH IN 10 FEET AGAINST STEAM FLOW.
39. STEAM SUPPLY BRANCHES SHALL EXTEND FROM TOP OF MAIN, EITHER VERTICALLY OR AT A 45° ANGLE, AS SPACE PERMITS.
40. WHEN HORIZONTAL STEAM PIPING IS REDUCED IN SIZE, IN DIRECTION OF FLOW, USE ECCENTRIC REDUCING COUPLINGS WITH PIPE FLUSH ON BOTTOM.
41. PROVIDE CONDENSATE DRIPS AND TRAPS IN STEAM LINES AT ENDS OF MAINS, AT POINTS WHERE RISE IN MAIN ELEVATION IS REQUIRED AND WHERE INDICATED.
42. CONDENSATE DRIPS LEGS IN STEAM SUPPLY PIPING SHALL BE THE SAME DIAMETER AS STEAM SUPPLY.
43. PIPE ASSEMBLIES, INCLUDING PIPE, STRAINERS AND VALVES, TO STEAM TRAP INLET AND DISCHARGE CONNECTIONS SHALL BE SAME SIZE AS TRAP CONNECTIONS.
44. USE WELDING JOINTS FOR CONNECTIONS FROM MAINS TO EQUIPMENT USING AT LEAST FIVE FITTINGS FROM MAIN TO EQUIPMENT INCLUDING TEE IN MAIN.

Office of  
Construction  
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of Veterans  
Affairs





**GENERAL NOTES**

A. REFER TO PHASING PLANS FOR SEQUENCING OF WORK. NEW WORK SHALL BE INSTALLED TO THE MAXIMUM EXTENT POSSIBLE TO MINIMIZE DOWNTIME REQUIRED FOR SHUTDOWN, DEMOLITION, AND TIE-IN TO EXISTING SYSTEMS.

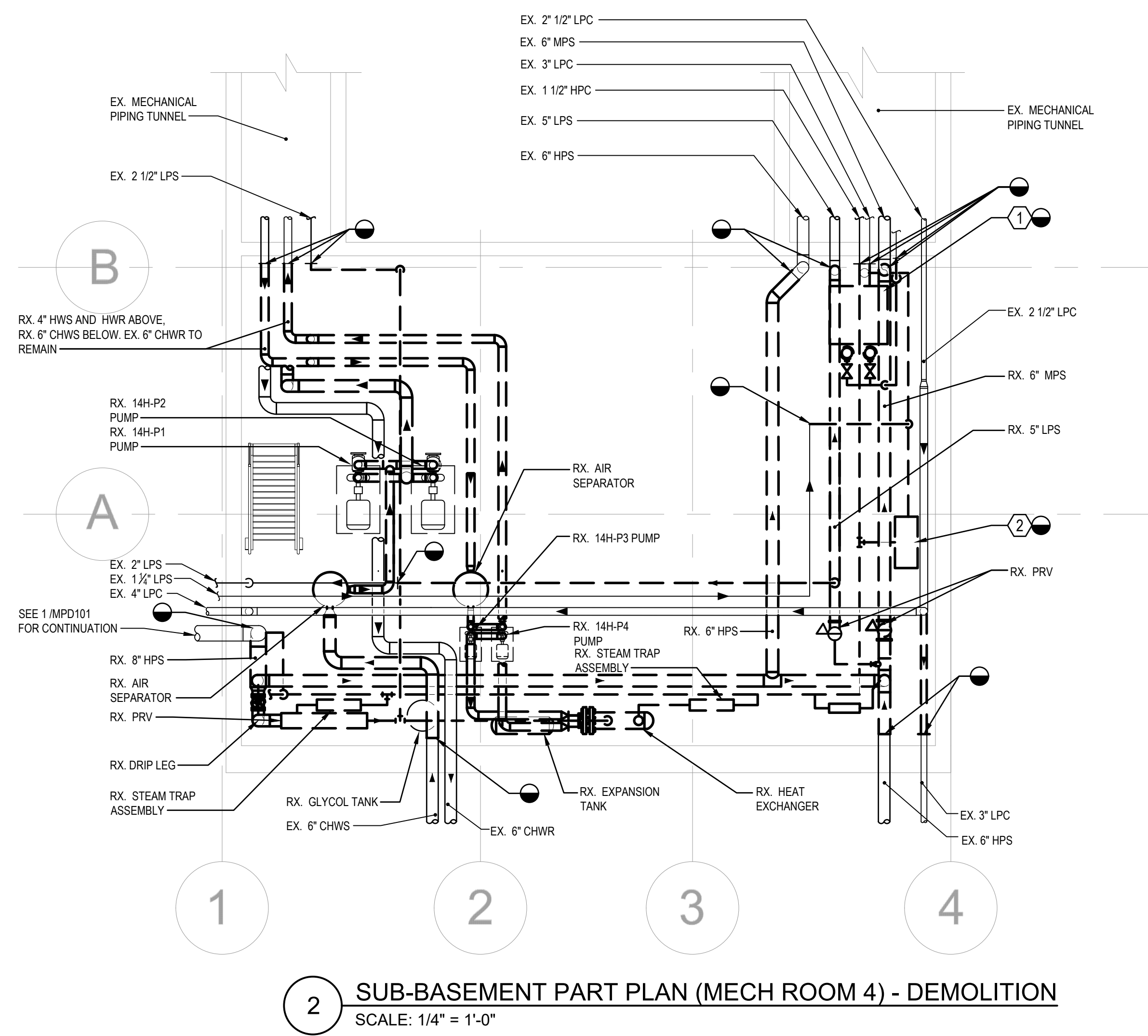
- PLAN NOTES**
- 1 REMOVE EXISTING RADIATOR INCLUDING ALL VALVES AND PIPING BACK TO MAIN. EXISTING WALL TO REMAIN EXPOSED
  - 2 REMOVE EXISTING RETURN AIR LOUVER AND PLENUM.
  - 3 REMOVE EXISTING EXHAUST FAN / LOUVER AND PLENUM.
  - 4 LOUVER TO BE INSTALLED IN EXISTING STRUCTURAL OPENING / WINDOW. SEE M802 FOR SCHEDULED SIZES
  - 5 REMOVE EXISTING 24 x 24 DUCTWORK / DAMPER & LOUVER
  - 6 REMOVE EXISTING DDC CONTROL PANEL FOR CHILLED AND HEATING WATER PLANTS. ATC CONTRACTOR TO REMOVE EXISTING PANEL AND RELOCATE ALL CONTROL WIRING AS REQUIRED.
  - 7 NEW DDC CONTROL PANEL FOR CHILLED WATER PLANT AND HEATING WATER PLANT. ATC CONTRACTOR TO PROVIDE. INSTALL AND INTEGRATE NEW CONTROLS INTO EXISTING SYSTEM.

<b>Revisions:</b>		<b>Date:</b>		<b>SUBCONSULTANTS</b>		<b>ARCH./ENGINEER OF RECORD</b>		<b>STAMP</b>		<b>Office of Construction and Facilities Management</b>		<b>Drawing Title</b>		<b>Phase</b>		<b>Project Title</b>		<b>Project Number</b>	
				<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b>		<b>PRIME A/E:</b>				<b>U.S. Department of Veterans Affairs</b>		<b>BASEMENT PART PLANS - BLDG 14H - MECHANICAL HVAC - DEMOLITION AND NEW WORK</b>		<b>100% SUBMISSION</b>		<b>UPGRADE STEAM SYSTEM PATIENT AREAS</b>		<b>512A5-21-304</b>	
				<b>MORABITO CONSULTANTS, INC.</b>		<b>VETERAN DESIGN &amp; CONSTRUCTION INC.</b>						<b>Approved: Project Director</b>				<b>VAMC PERRY POINT</b>		<b>Building Number</b>	
				<b>APEX COMPANIES, LLC</b>		<b>5523 RESEARCH PARK DRIVE SUITE 110</b>												<b>14H</b>	
				<b>A. MORTON THOMAS AND ASSOCIATES, INC.</b>		<b>BALTIMORE, MARYLAND 21228</b>										<b>Issue Date</b>		<b>Drawing Number</b>	
						<b>443.543.5081</b>										<b>02/02/2024</b>		<b>MH101</b>	
																<b>Checked</b>		<b>Drawn</b>	
																<b>MC/NH</b>		<b>MB</b>	



## PLAN NOTES

- 1 REMOVE EXISTING DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK, CONTROL PANELS, AND ACCESSORIES.
- 2 REMOVE EXISTING FLASH TANK.
- 3 REMOVE EXISTING RADIATOR AND AIR GRILLES IN WALL. EXISTING WALL TO REMAIN EXPOSED.
- 4 REMOVE EXISTING DDC CONTROL PANEL FOR CHILLED AND HEATING WATER PLANTS. ATC CONTRACTOR TO REMOVE EXISTING PANEL AND RELOCATE ALL CONTROL WIRING AS REQUIRED.



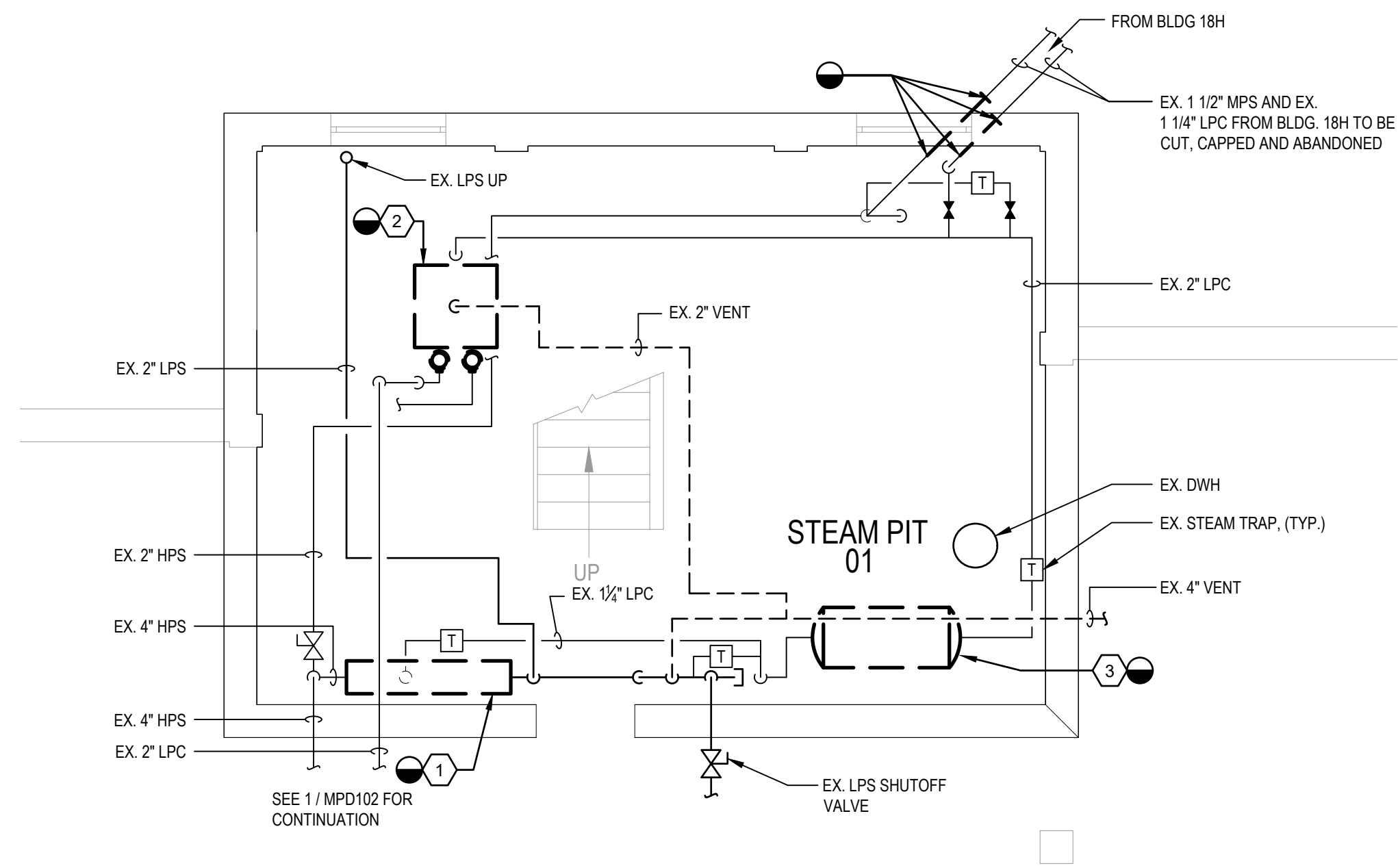
2 SUB-BASEMENT PART PLAN (MECH ROOM 4) - DEMOLITION  
SCALE: 1/4" = 1'-0"



**KEYPLAN**  
NO SCALE

File Path





- PLAN NOTES
- 1

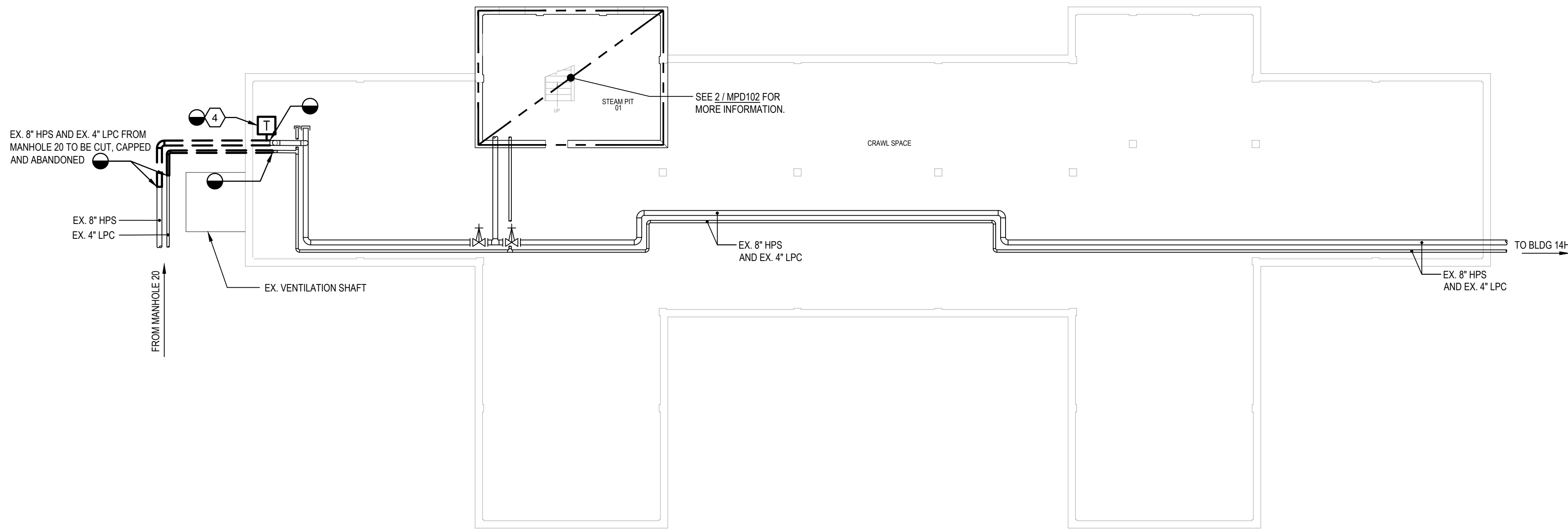
REMOVE EXISTING STEAM PRESSURE REDUCING STATION. REMOVE ALL PIPING, VALVES AND TRAPS IN THEIR ENTIRETY. PREPARE FOR INSTALLATION OF NEW PRESSURE REDUCING STATION.
- 2

REMOVE EXISTING DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK, CONTROL PANELS, AND ACCESSORIES.
- 3

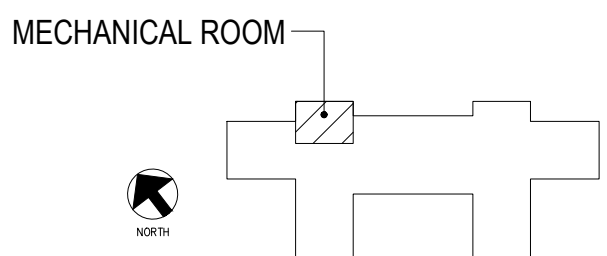
DISCONNECT AND REMOVE EXISTING FLASH TANK. PREPARE FOR CONNECTIONS TO NEW FLASH TANK.
- 4

REMOVE EXISTING STEAM TRAP AT HPS ENTRY PIPE. REMOVE HPC PIPING FROM TRAP TO LPC LINE.

2 MECHANICAL ROOM PART PLAN - STEAM PIPING - DEMOLITION  
SCALE: 1/4" = 1'-0"



1 BASEMENT PLAN - STEAM PIPING - DEMOLITION  
SCALE: 3/32" = 1'-0"



KEYPLAN  
NO SCALE

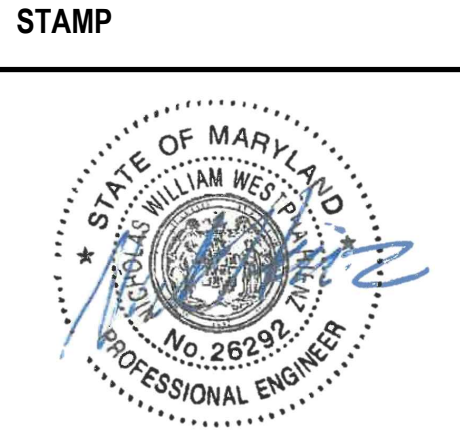
0' 5'-4" 10'-8" 21'-4"  
SCALE: 3/32" = 1'-0"

0' 1' 2' 4' 8'  
SCALE: 1/4" = 1'-0"

Revisions:	Date:

SUBCONSULTANTS		
DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325
A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE/SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		

ARCH./ENGINEER OF RECORD
PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081



Office of  
Construction  
and Facilities  
Management  
  
VA U.S. Department  
of Veterans  
Affairs

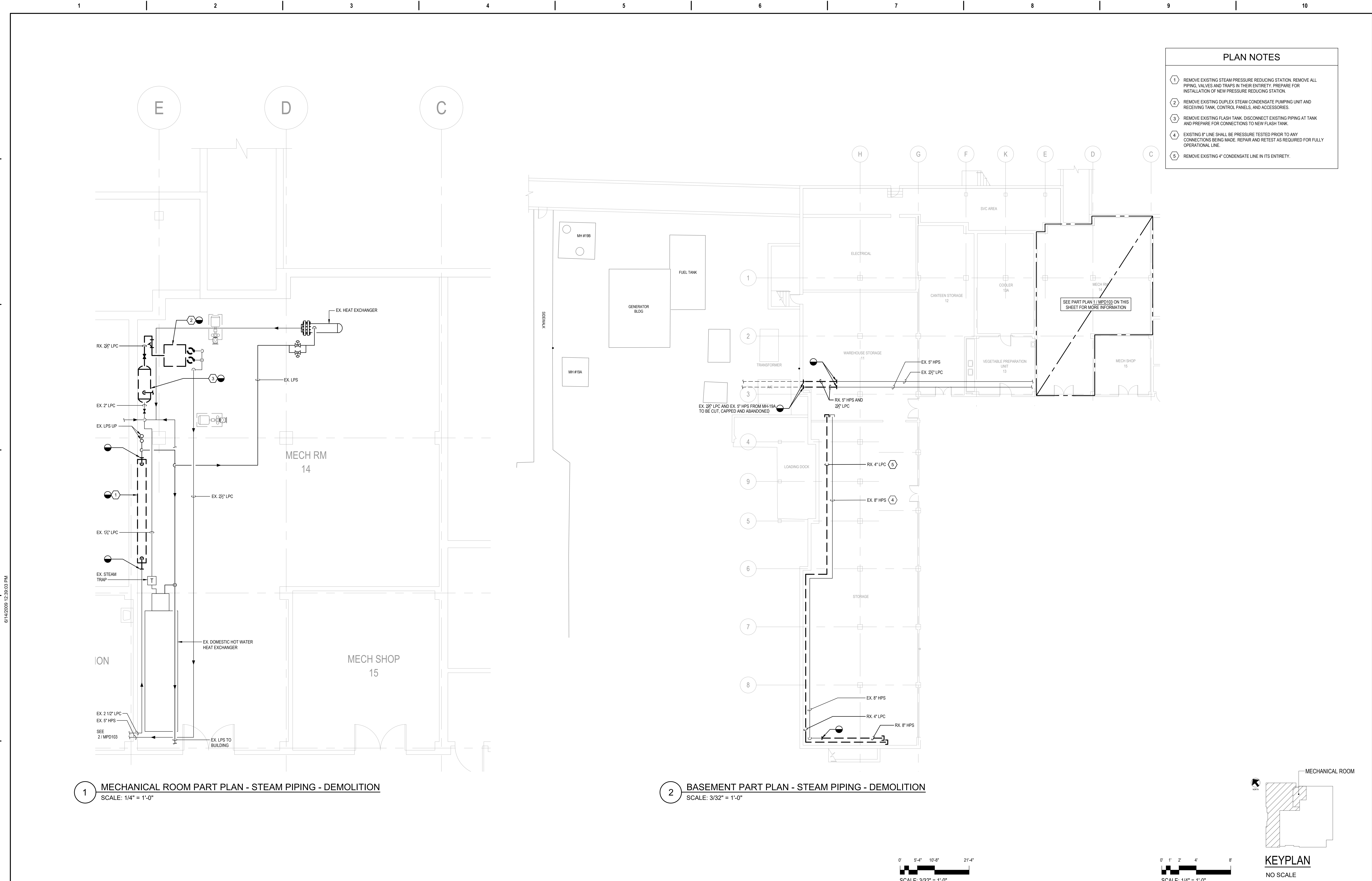
Drawing Title BASEMENT PLAN - BLDG 15H STEAM PIPING - DEMO
Approved: Project Director

Phase 100% SUBMISSION
-

Project Title UPGRADE STEAM SYSTEM PATIENT AREAS
Location VAMC PERRY POINT
Issue Date 02/02/2024
Checked MC/NH
Drawn MB

Project Number 512A5-21-304
Building Number 15H
Drawing Number MPD102

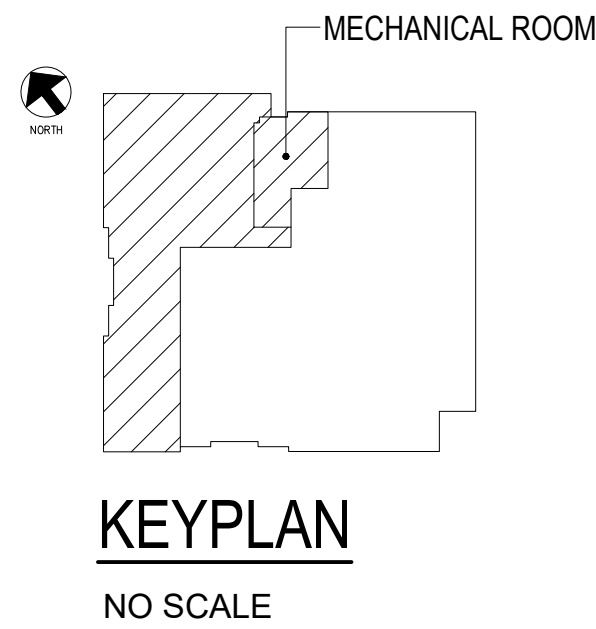




- PLAN NOTES**
- 1 REMOVE EXISTING STEAM PRESSURE REDUCING STATION. REMOVE ALL PIPING, VALVES AND TRAPS IN THEIR ENTIRETY. PREPARE FOR INSTALLATION OF NEW PRESSURE REDUCING STATION.
  - 2 REMOVE EXISTING DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK, CONTROL PANELS, AND ACCESSORIES.
  - 3 REMOVE EXISTING FLASH TANK. DISCONNECT EXISTING PIPING AT TANK AND PREPARE FOR CONNECTIONS TO NEW FLASH TANK.
  - 4 EXISTING 8" LINE SHALL BE PRESSURE TESTED PRIOR TO ANY CONNECTIONS BEING MADE. REPAIR AND RETEST AS REQUIRED FOR FULLY OPERATIONAL LINE.
  - 5 REMOVE EXISTING 4" CONDENSATE LINE IN ITS ENTIRETY.

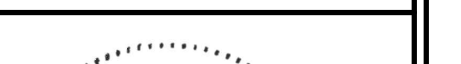
1 MECHANICAL ROOM PART PLAN - STEAM PIPING - DEMOLITION  
SCALE: 1/4" = 1'-0"

2 BASEMENT PART PLAN - STEAM PIPING - DEMOLITION  
SCALE: 3/32" = 1'-0"



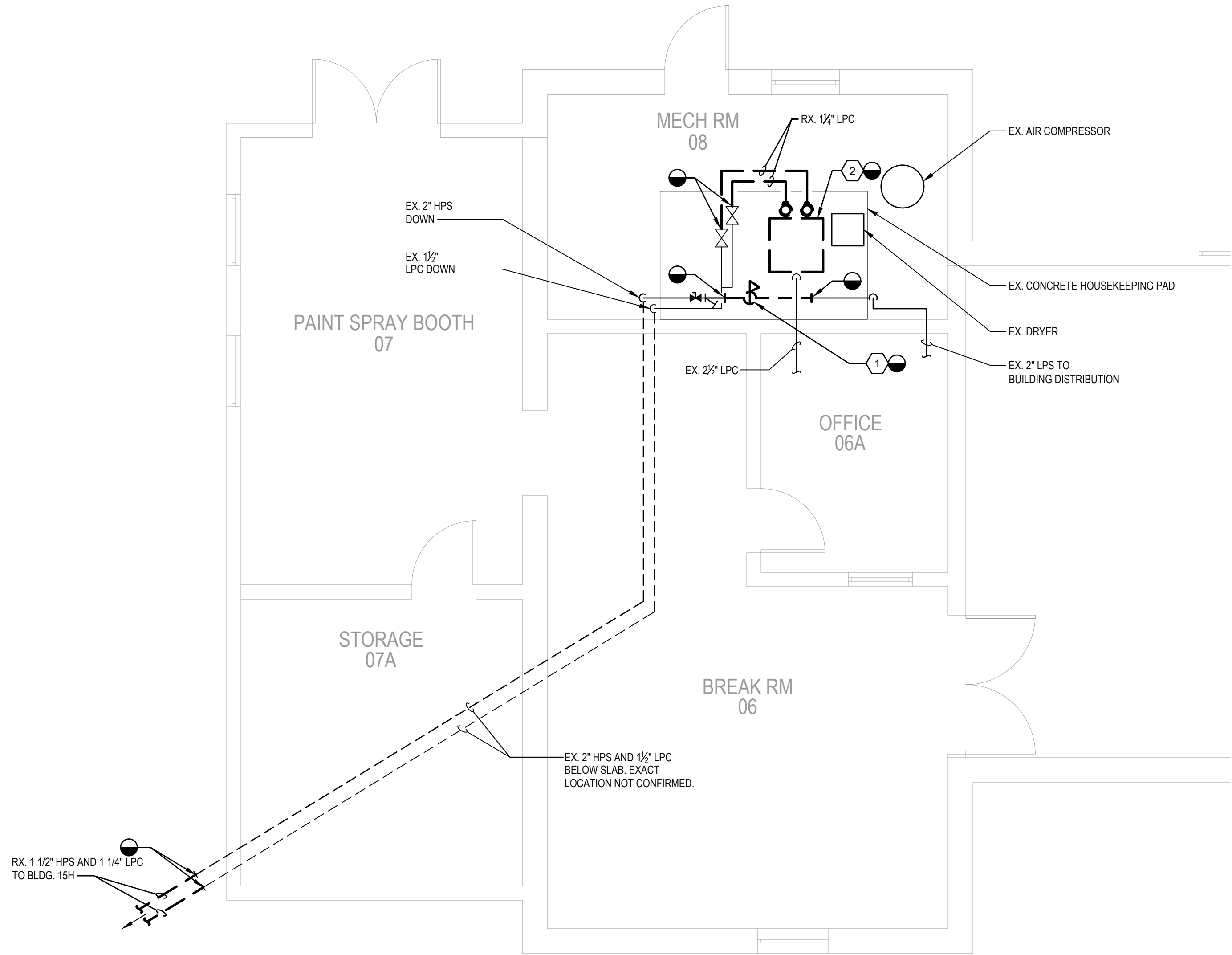
0' 5'-4" 10'-8" 21'-4"  
SCALE: 3/32" = 1'-0"

0' 1' 2' 4' 8'  
SCALE: 1/4" = 1'-0"

		SUBCONSULTANTS			ARCH/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title			Project Number	
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080 A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE) SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377			APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081	BASEMENT PLAN - BLDG 17H STEAM PIPING - DEMO	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS		512A5-21-304
									Approved: Project Director	-	Location VAMC PERRY POINT		Drawing Number	
Revisions:		Date:					VA U.S. Department of Veterans Affairs			Issue Date 02/02/2024		Checked MC/NH	Drawn DS	MPD103

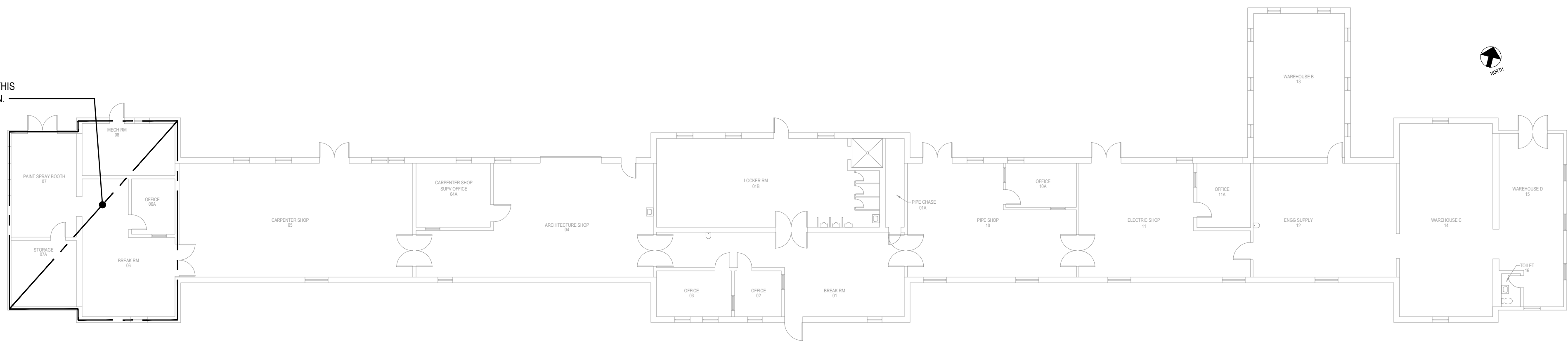


PLAN NOTES			
1	REMOVE EXISTING PRESSURE REDUCING VALVE, REMOVE PIPING AND ACCESSORIES AND PREPARE FOR INSTALLATION OF NEW PRESSURE REDUCING STATION.		
2	REMOVE EXISTING DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK, CONTROL PANELS, AND ACCESSORIES.		

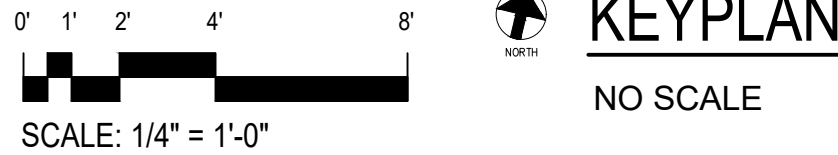
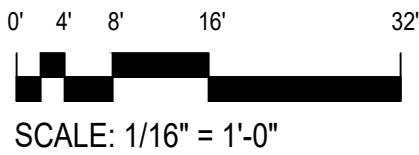
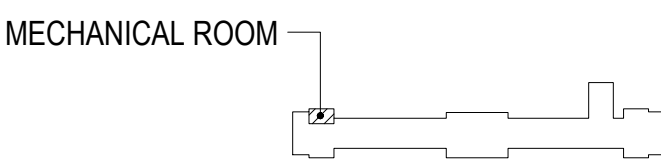


1 MECHANICAL ROOM PART PLAN - STEAM PIPING - DEMOLITION  
SCALE: 1/4" = 1'-0"

SEE PART PLAN 1 / MPD104 ON THIS SHEET FOR MORE INFORMATION.



2 FIRST FLOOR PLAN - STEAM PIPING - DEMOLITION  
SCALE: 1/16" = 1'-0"



		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management  VA U.S. Department of Veterans Affairs	Drawing Title FIRST FLOOR PLAN - BLDG 18H STEAM PIPING - DEMO	Phase 100% SUBMISSION	Project Title UPGRADE STEAM SYSTEM PATIENT AREAS	Project Number 512A5-21-304
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080  A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE/ SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545	MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081			Approved: Project Director	-	Location VAMC PERRY POINT	Building Number 18H  Drawing Number MPD104
Revisions:		Date:							Issue Date 02/02/2024	Checked MC/NH	Drawn DS

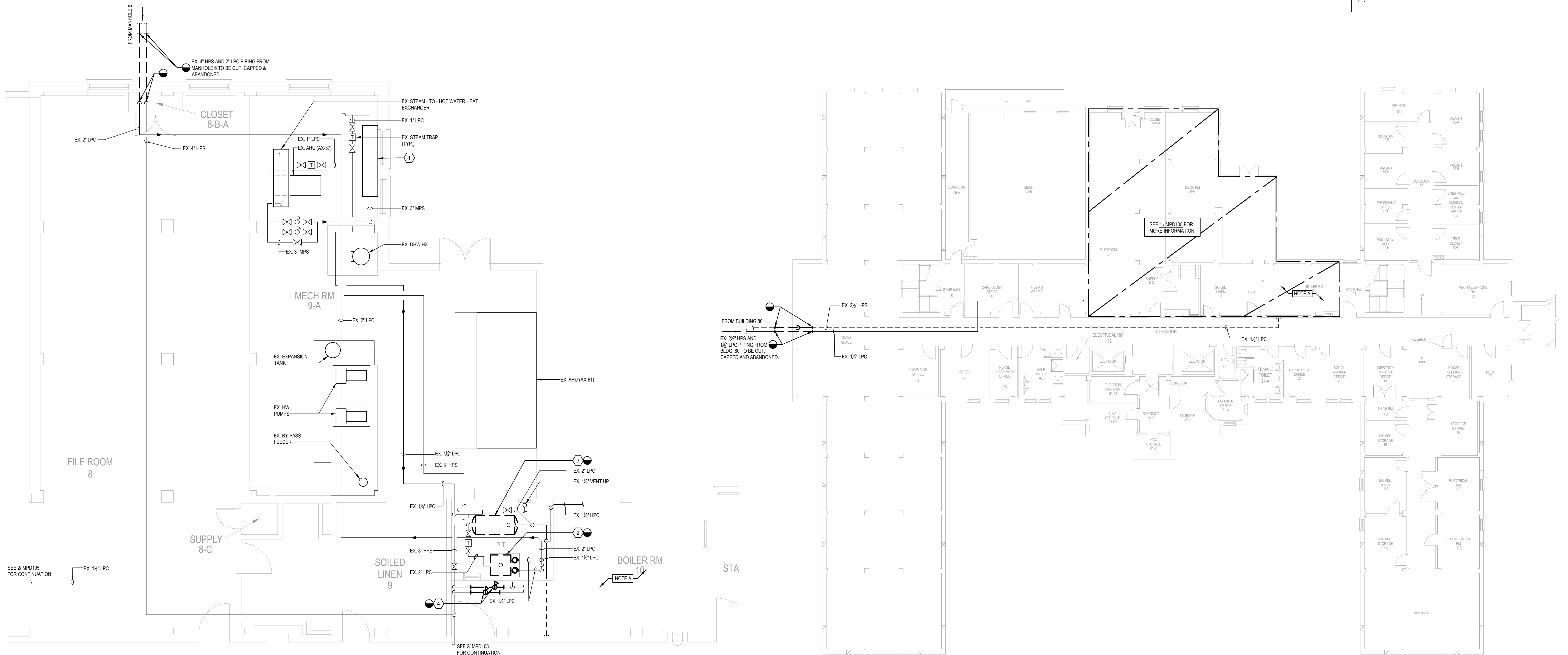


## GENERAL NOTES

- A. BOILER ROOM 10 IN EXTREMELY CONGESTED AREA. WORK WITHIN ROOM SHALL BE COORDINATED WITH THE VA REGARDING ESTIMATED DOWNTIME FOR DEMOLITION AND NEW WORK. REMOVE EXISTING KNOWN ABANDONED PIPING WITHIN ROOM TO GREATEST EXTENT POSSIBLE. CONFIRM ALL PIPING REMOVAL WITH VA FACILITIES.

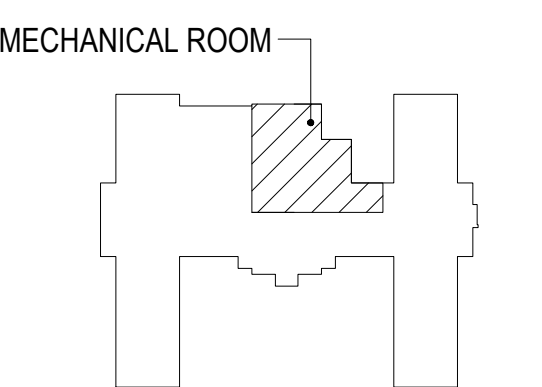
## PLAN NOTES

- 1 EXISTING STEAM PRESSURE REDUCING STATION TO REMAIN.  
2 REMOVE EXISTING DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK, CONTROL PANELS, AND ACCESSORIES.  
3 DISCONNECT AND REMOVE EXISTING FLASH TANK. PREPARE FOR CONNECTIONS TO NEW FLASH TANK.  
4 REMOVE EXISTING PRESSURE REDUCING VALVE AND ASSOCIATED ACCESSORIES.





1 MECHANICAL ROOM PART PLAN - STEAM PIPING - DEMOLITION  
SCALE: 1/4" = 1'-0"

2 BASEMENT PLAN - STEAM PIPING - DEMOLITION  
SCALE: 3/32" = 1'-0"



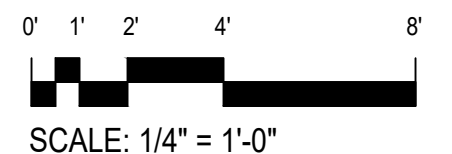
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SCALE: 1/4" = 1'-0"  
KEYPLAN  
NO SCALE



		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title BASEMENT PLAN - BLDG 19H STEAM PIPING - DEMO	Phase 100% SUBMISSION	Project Title UPGRADE STEAM SYSTEM PATIENT AREAS	Project Number 512A5-21-304	
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081							
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE/ SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545										
Revisions:		Date:						Approved: Project Director	-	Location VAMC PERRY POINT	Drawing Number MPD105	
								VA	U.S. Department of Veterans Affairs.	Issue Date 02/02/2024	Checked MC/NH	Drawn DS



**F**

- 1 EXISTING CONTROL VALVES TO REMAIN.
- 2 REMOVE EXISTING DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK, CONTROL PANELS, AND ACCESSORIES.
- 3 EXISTING FLASH TANK TO REMAIN.
- 4 REMOVE EXISTING HPC FROM TUNNEL TO FLASH TANK.



		SUBCONSULTANTS			ARCH/ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management		Drawing Title		Phase		Project Name		Project Number			
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 6401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0590  A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 1560 CRABBS BRANCH WAY, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377		APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 1560 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.1325				PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081				FIRST FLOOR PLAN - BLDG 20H STEAM PIPING - DEMO		100% SUBMISSION		UPGRADE STEAM SYSTEM PATIENT AREAS	
											Approved: Project Director				Location		Building Number			
													-		VAMC PERRY POINT		20H			
Revisions:		Date:													Issue Date		Checked			
															02/02/2024		MC/NH			
																	Drawn			
																	DS			
																	Drawing Number			
																	MPD106			



A

B

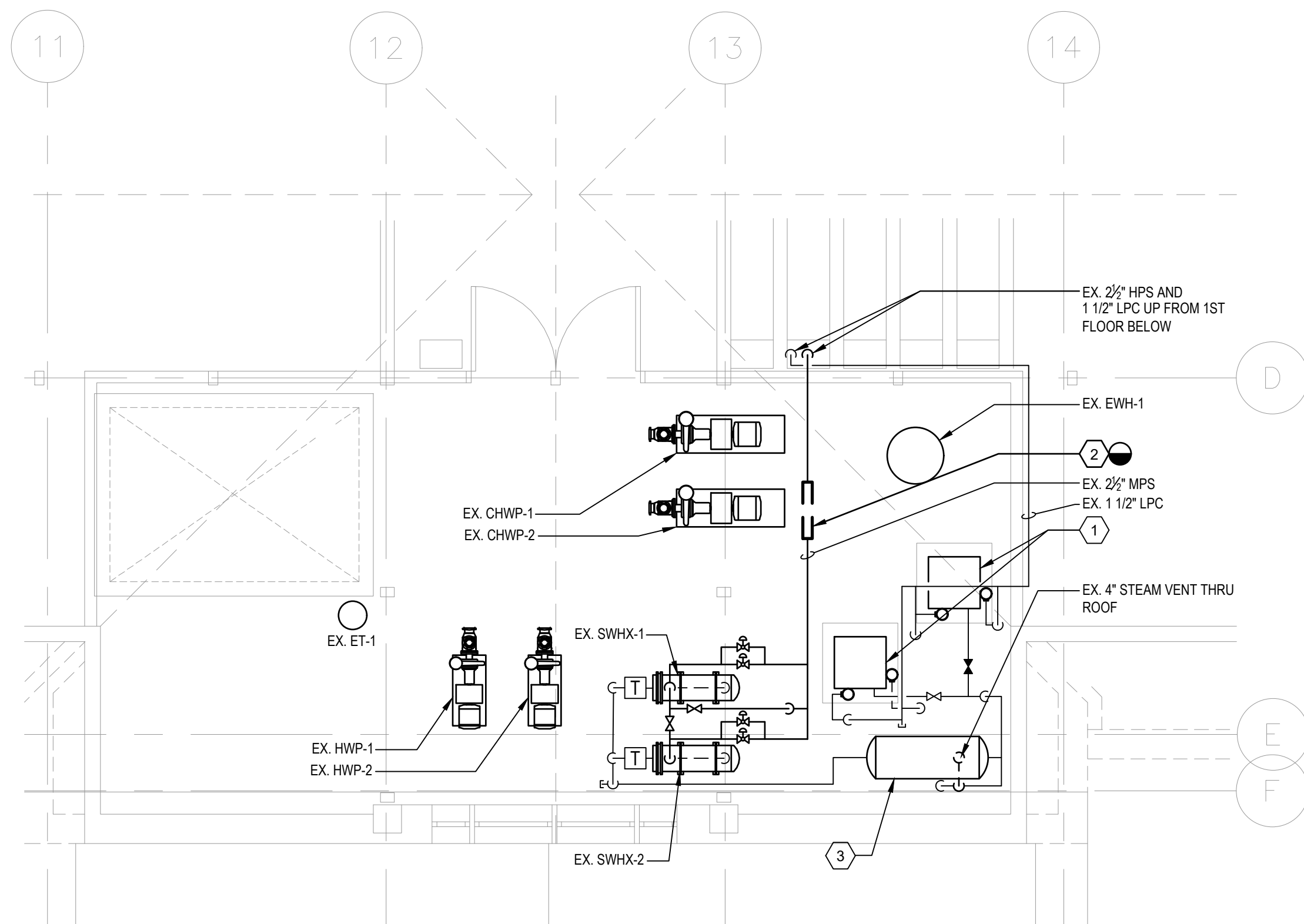
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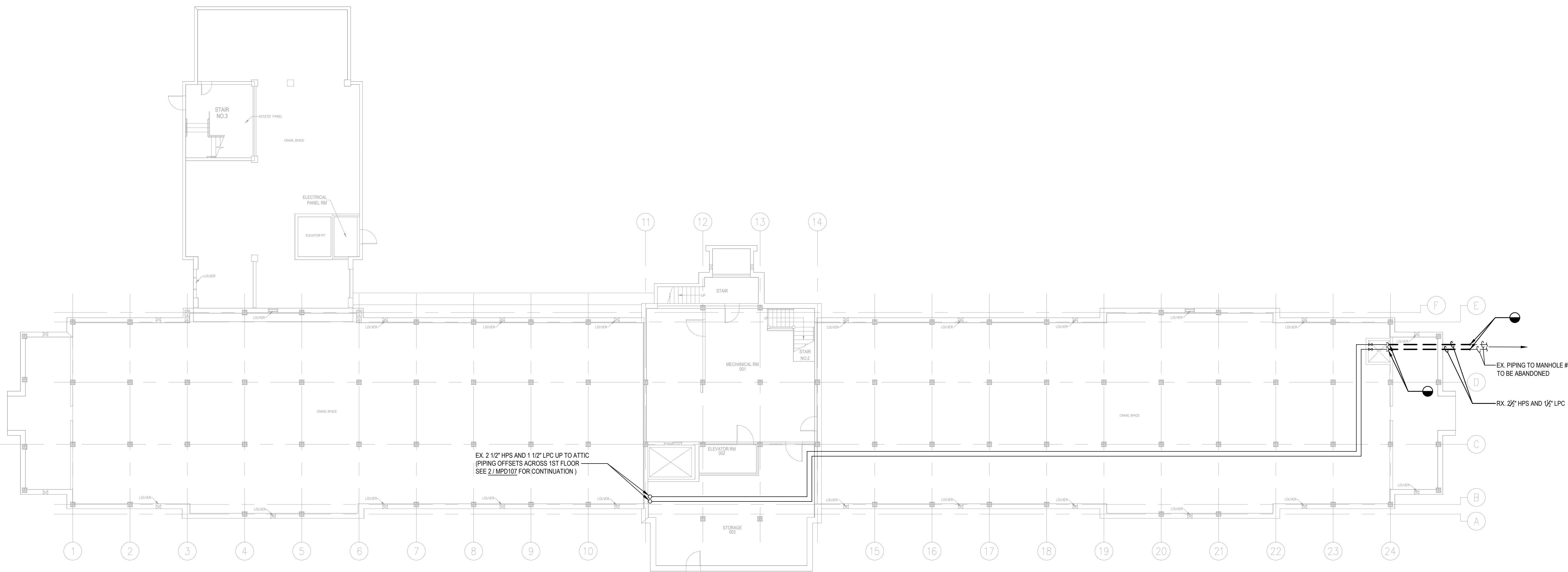
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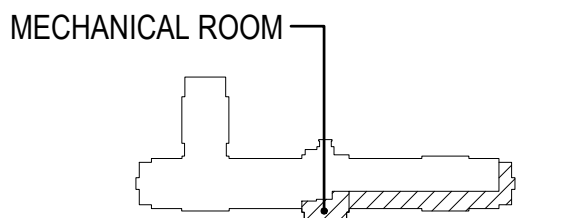
2 ATTIC PLAN - STEAM PIPING - DEMOLITION  
SCALE: 1/4" = 1'-0"



1 BASEMENT PLAN - STEAM PIPING - DEMOLITION  
SCALE: 3/32" = 1'-0"

PLAN NOTES

- EXISTING DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK TO REMAIN.
- REMOVE EXISTING PRESSURE REDUCING VALVE AND PIPING. PREPARE FOR INSTALLATION OF NEW PRESSURE REDUCING STATION.
- EXISTING FLASH TANK TO REMAIN.



KEYPLAN  
NO SCALE

0' 5'-4" 10'-8" 21'-4"  
SCALE: 3/32" = 1'-0"

0' 1' 2' 4' 8'  
SCALE: 1/4" = 1'-0"

File Path

VA FORM 08 - 6231

1

2

3

4

5

6

7

8

9

10

SUBCONSULTANTS

**DELTA ENGINEERS, ARCHITECTS & SURVEYORS**  
ARCHITECTURAL SERVICES  
8401 CONNECTICUT AVE SUITE 350  
CHEVY CHASE, MARYLAND 20815  
301.718.0080  
**A. MORTON THOMAS AND ASSOCIATES, INC.**  
CIVIL ENGINEER, LANDSCAPE/SURVEY  
700 KING FARM BOULEVARD, 3RD FLOOR  
ROCKVILLE, MARYLAND 20850  
301.881.2545

**MORABITO CONSULTANTS, INC.**  
STRUCTURAL ENGINEERING  
952 RIDGEBROOK ROAD, SUITE 1700  
SPARKS, MARYLAND 21152  
410.467.2377

**APEX COMPANIES, LLC**  
INDUSTRIAL HYGIENIST  
15850 CRABBS BRANCH WAY, STE 200  
ROCKVILLE, MARYLAND 20855  
240.499.7325

ARCH./ENGINEER OF RECORD

PRIME A/E:

**VETERAN DESIGN & CONSTRUCTION INC.**  
5523 RESEARCH PARK DRIVE SUITE 110  
BALTIMORE, MARYLAND 21228  
443.543.5081

STAMP



Office of  
Construction  
and Facilities  
Management



U.S. Department  
of Veterans  
Affairs

Drawing Title

**BASEMENT PLAN - BLDG 80H  
STEAM PIPING - DEMO**

Approved: Project Director

Phase

100% SUBMISSION

-

Project Title

**UPGRADE STEAM SYSTEM  
PATIENT AREAS**

Location

**VAMC PERRY POINT**

Issue Date  
02/02/2024

Checked  
MC/NH

Drawn  
MB

Project Number

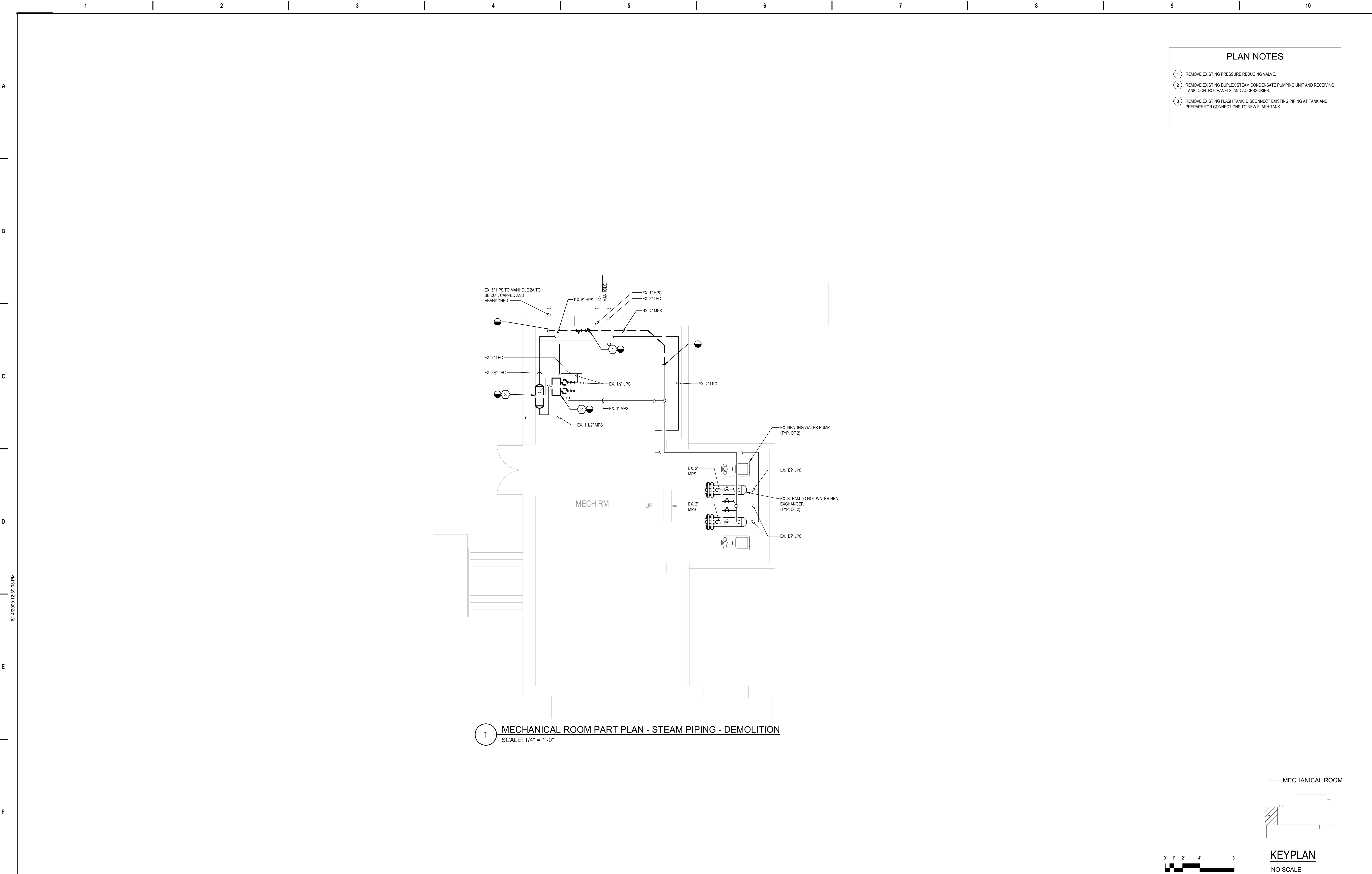
**512A5-21-304**

Building Number  
**80H**



Drawing Number

**MPD107**

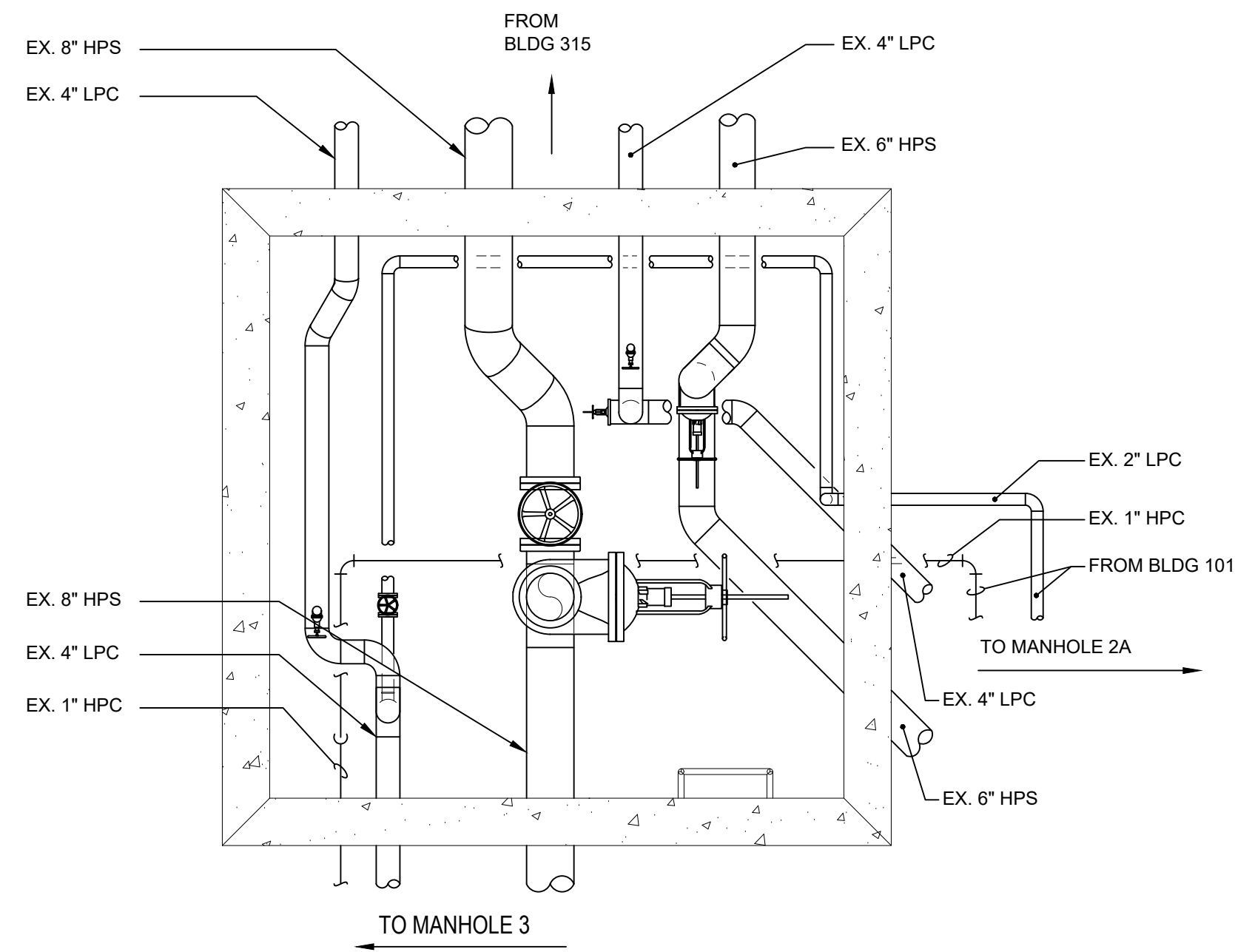
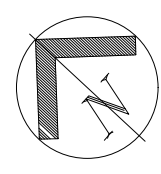




PLAN NOTES			
1	REMOVE EXISTING PRESSURE REDUCING VALVE.		
2	REMOVE EXISTING DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK, CONTROL PANELS, AND ACCESSORIES.		
3	REMOVE EXISTING FLASH TANK, DISCONNECT EXISTING PIPING AT TANK AND PREPARE FOR CONNECTIONS TO NEW FLASH TANK.		

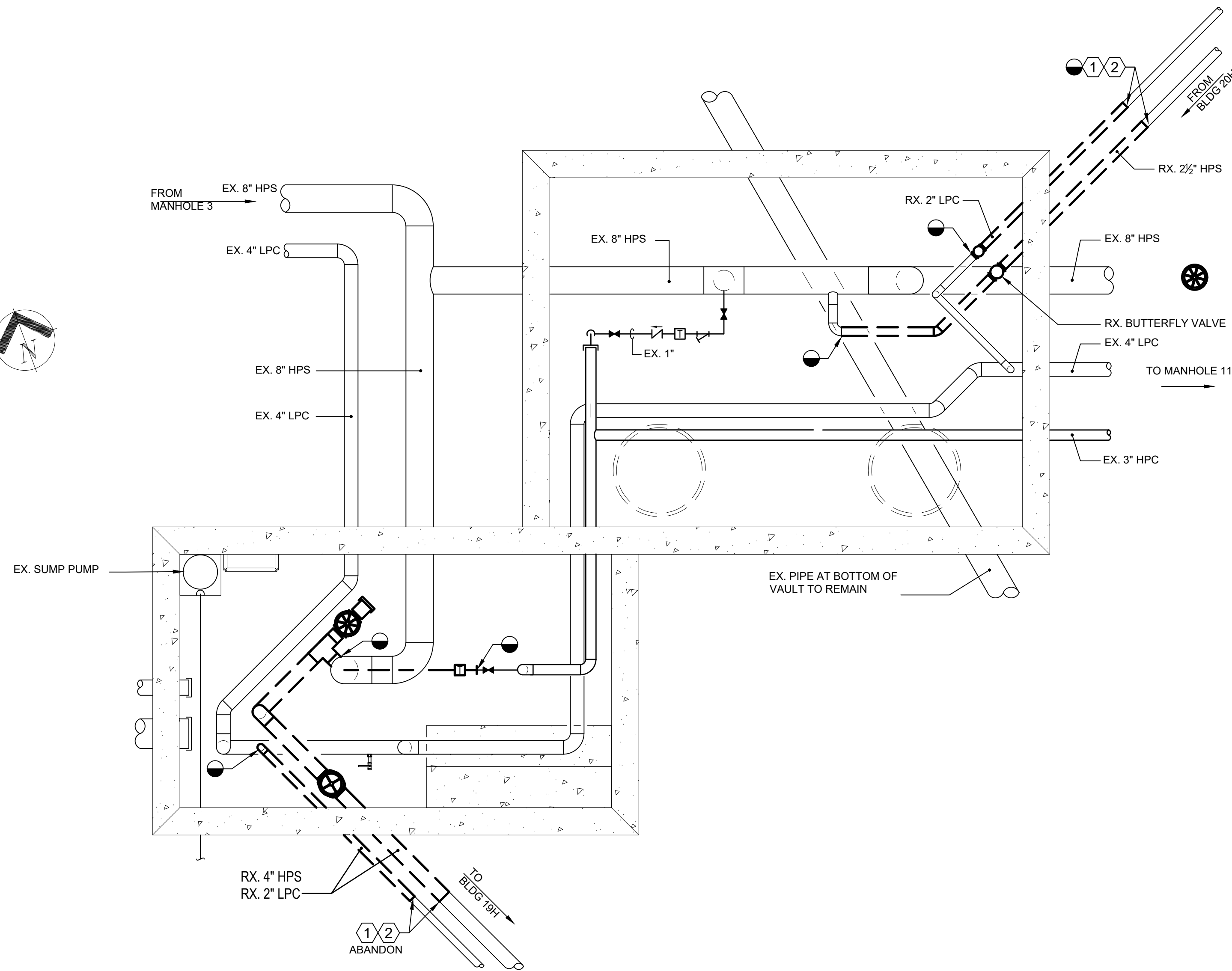
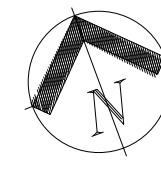
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		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081			BASEMENT PLAN - BLDG 101 STEAM PIPING - DEMO	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS		512A5-21-304
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE/SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545						Approved: Project Director	-	Location VAMC PERRY POINT		Drawing Number MPD108
Revisions:			Date:									



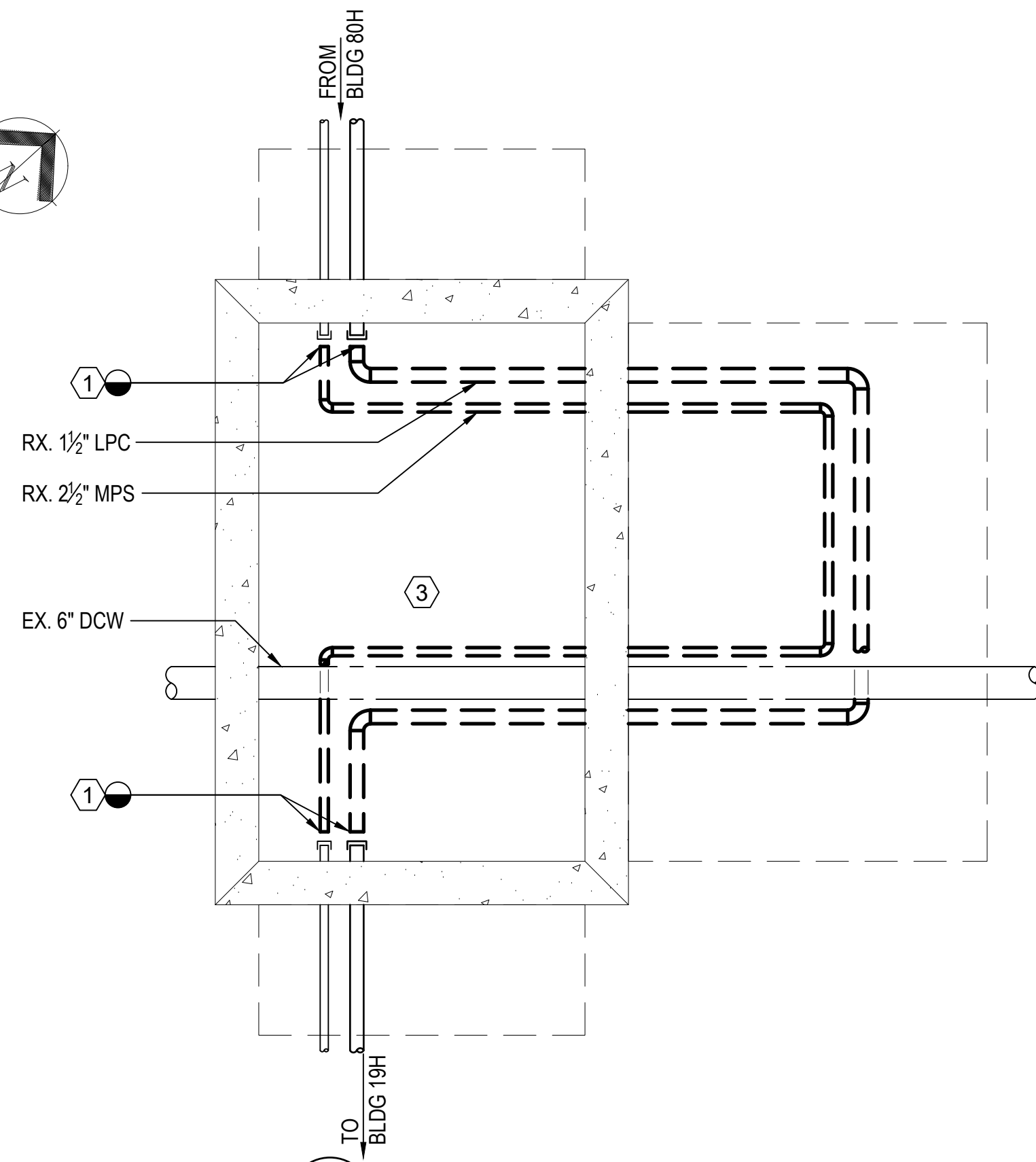
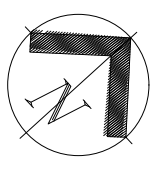


NOTE:  
SHOWN FOR REFERENCE ONLY.  
SEE MP201 FOR NEW WORK

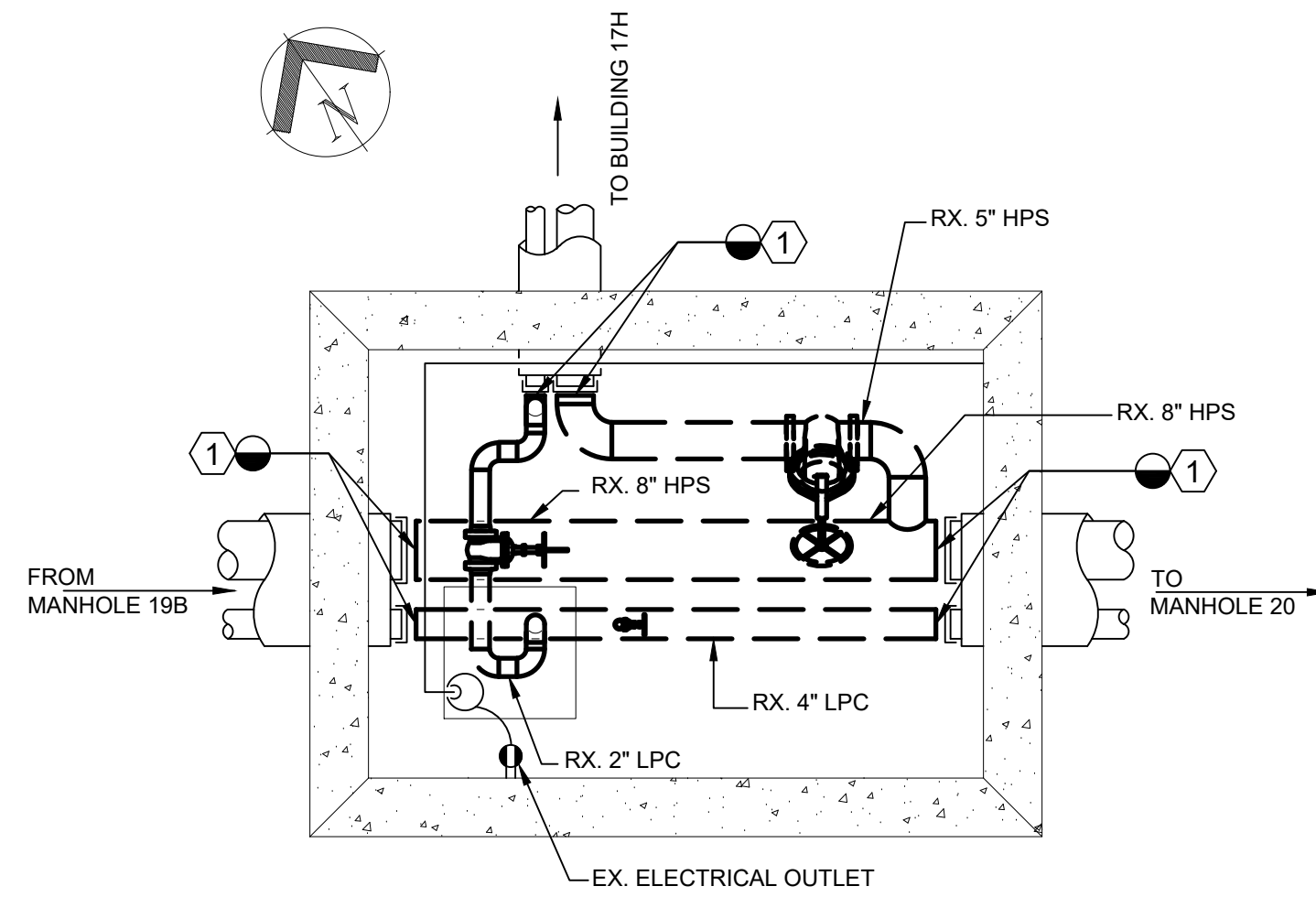
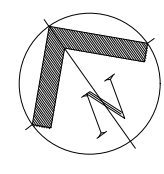
1 MANHOLE 1 PLAN  
SCALE: 1/2" = 1'-0"



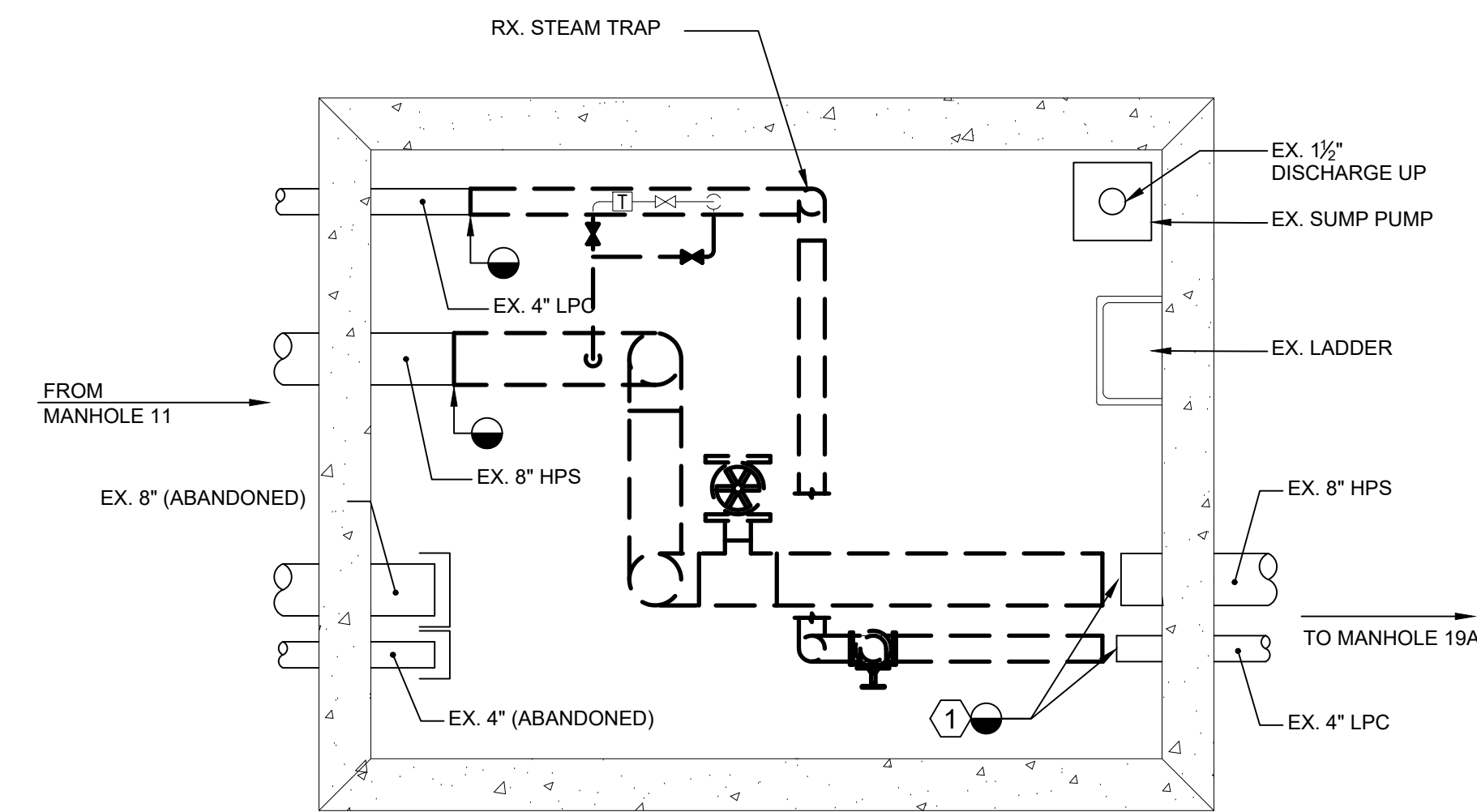
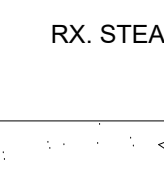
2 MANHOLE 6 PLAN  
SCALE: 1/2" = 1'-0"



3 MANHOLE 8 PLAN  
SCALE: 1/2" = 1'-0"



4 MANHOLE 19A PLAN  
SCALE: 1/2" = 1'-0"



5 MANHOLE 19B PLAN  
SCALE: 1/2" = 1'-0"

GENERAL NOTES

- A. TO MAXIMUM EXTENT POSSIBLE, INSTALL NEW PIPING PRIOR TO DEMOLITION OF EXISTING PIPING. STEAM OUTGAGES AT THE SITE SHALL BE KEPT TO A MINIMUM.
- B. PIPING INSULATION NOT SHOWN FOR CLARITY.

PLAN NOTES

- 1 CUT AND CAP EXISTING PIPING AT POINT INDICATED.
- 2 DEMOLISH AND REMOVE EXISTING CONCRETE PIPE TRENCH AS REQUIRED TO FACILITATE INSTALLATION OF NEW DIRECT BURIED PIPING.
- 3 MANHOLE 8 TO BE BACKFILLED WITH DIRT / SOIL AFTER DEMOLITION OF PIPING. SEE CIVIL FOR MORE INFORMATION.

0' 6" 1' 2' 4'  
SCALE: 1/2" = 1'-0"

SUBCONSULTANTS

**DELTA ENGINEERS, ARCHITECTS & SURVEYORS**  
ARCHITECTURAL SERVICES  
6401 CONNECTICUT AVE SUITE 350  
CHEVY CHASE, MARYLAND 20815  
301.718.0080

**A. MORTON THOMAS AND ASSOCIATES, INC.**  
CIVIL ENGINEER, LANDSCAPE / SURVEY  
700 KING FARM BOULEVARD, 3RD FLOOR  
ROCKVILLE, MARYLAND 20850  
301.881.2545

**MORABITO CONSULTANTS, INC.**  
STRUCTURAL ENGINEERING  
952 RIDGEBROOK ROAD, SUITE 1700  
SPARKS, MARYLAND 21152  
410.467.2377

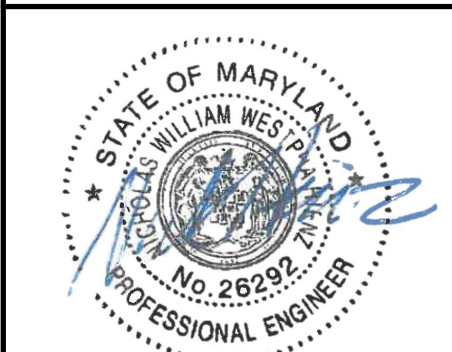
**APEX COMPANIES, LLC**  
INDUSTRIAL HYGIENIST  
15850 CRABBS BRANCH WAY, STE 200  
ROCKVILLE, MARYLAND 20855  
240.499.7325

ARCH./ENGINEER OF RECORD

PRIME A/E:

  
**VETERAN DESIGN & CONSTRUCTION INC.**  
5523 RESEARCH PARK DRIVE SUITE 110  
BALTIMORE, MARYLAND 21228  
443.543.5081

STAMP



Office of  
Construction  
and Facilities  
Management



U.S. Department  
of Veterans  
Affairs

Drawing Title

MANHOLE PART PLANS -  
MECHANICAL PIPING - DEMO

Approved: Project Director

Phase

100% SUBMISSION

Project Title

UPGRADE STEAM SYSTEM  
PATIENT AREAS

Location

VAMC PERRY POINT

Issue Date  
02/02/2024

Checked  
MC/NH

Drawn  
DS

Project Number

512A5-21-304

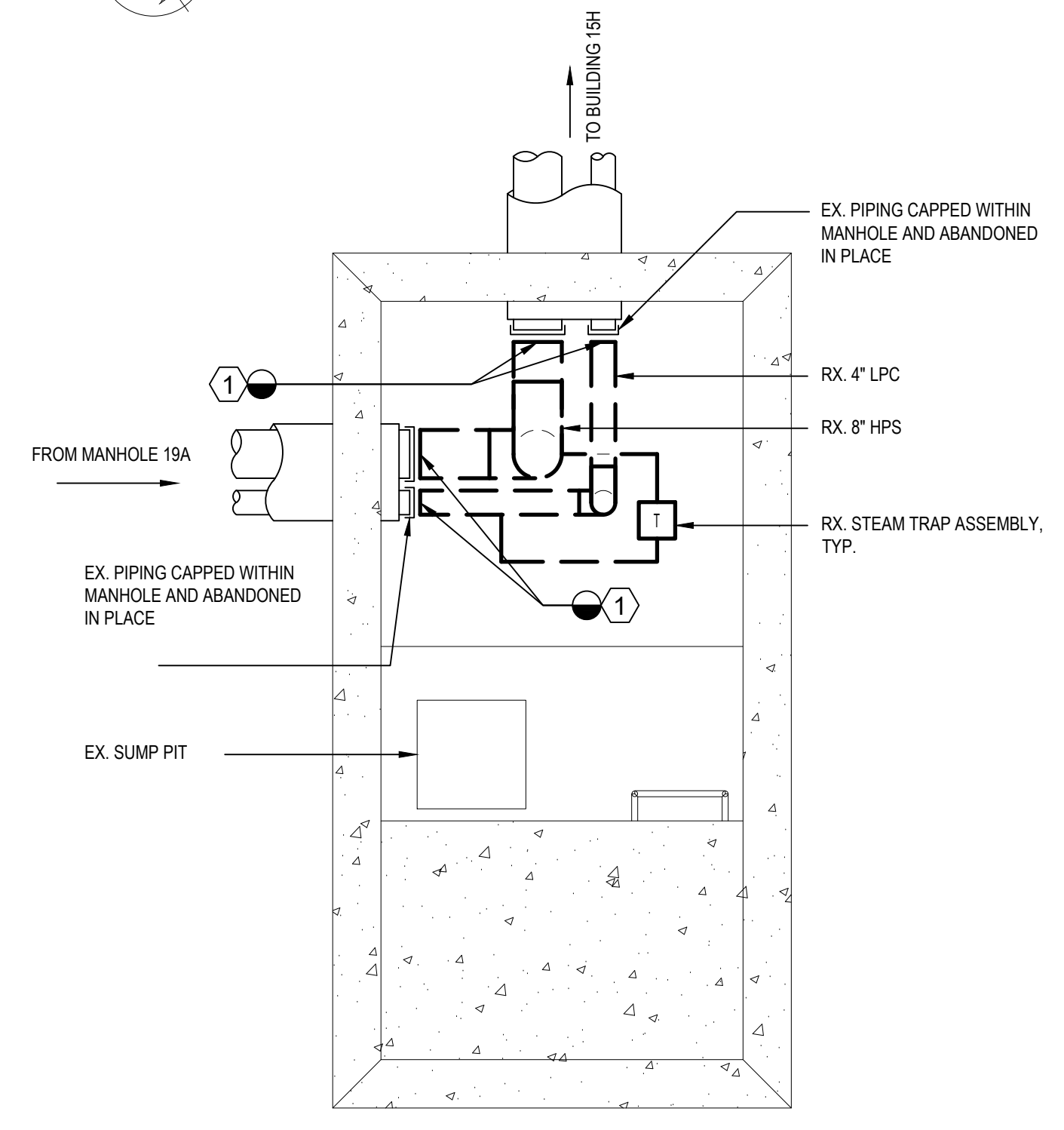
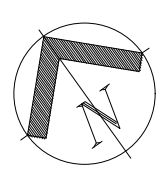
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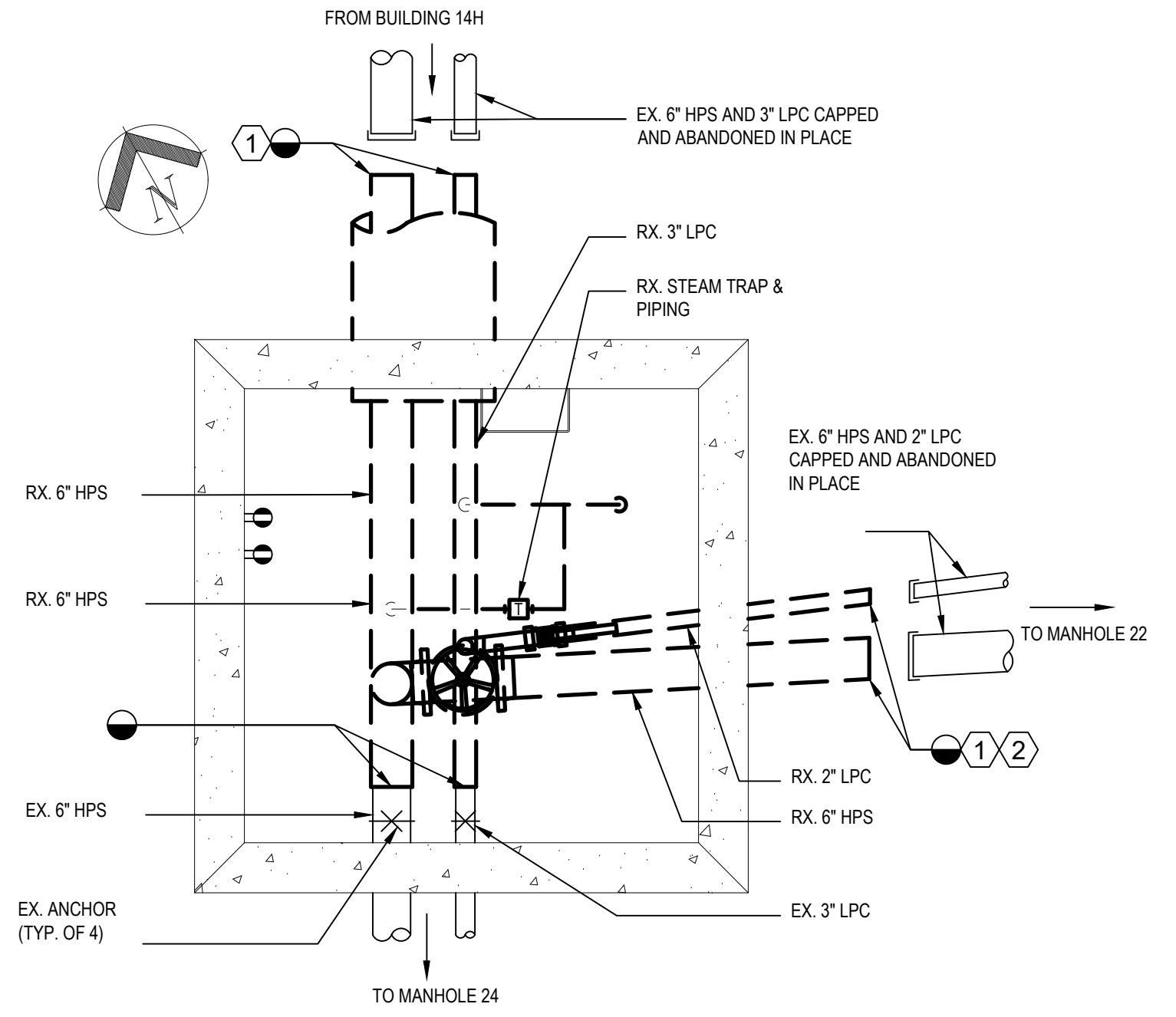
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MPD201

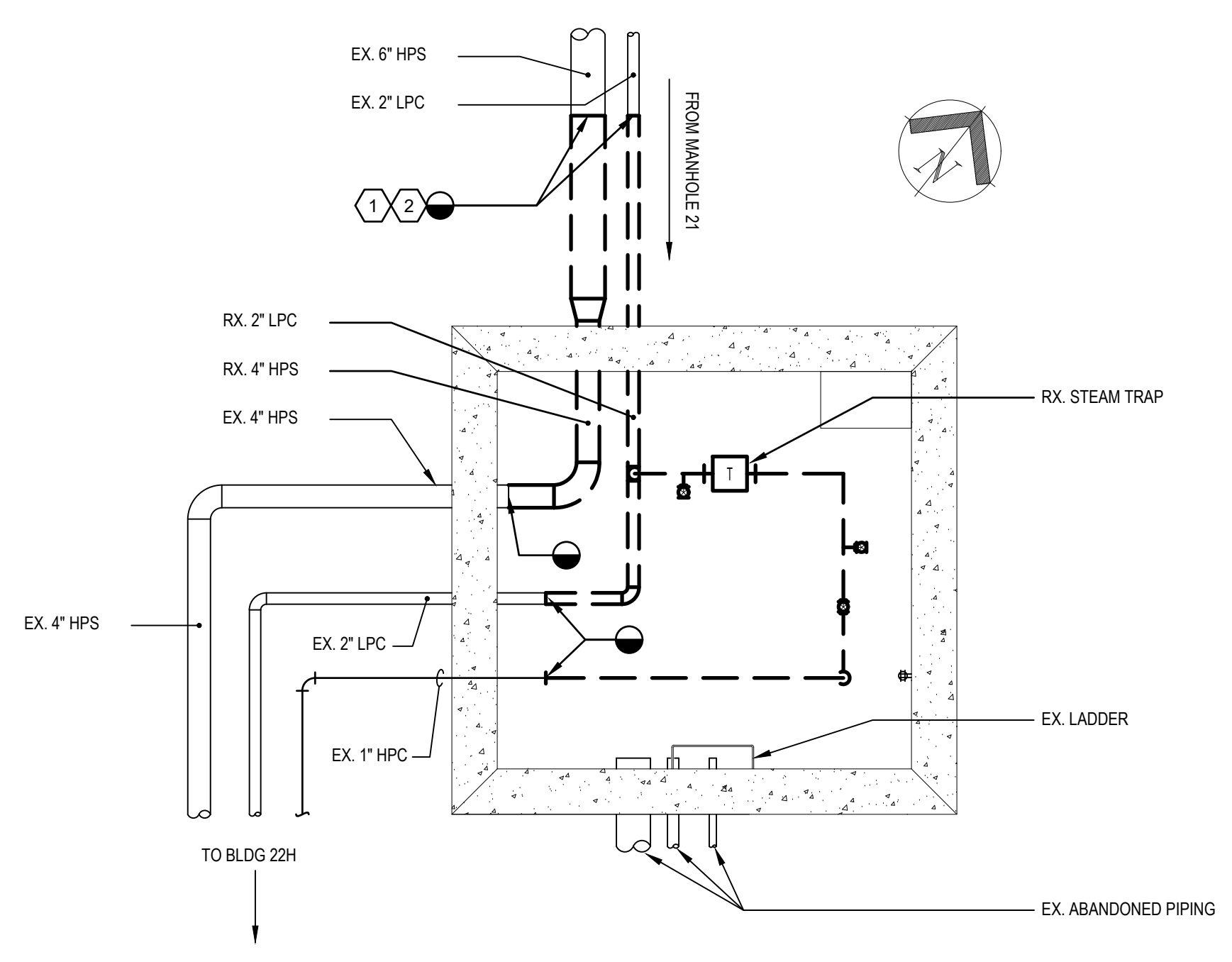




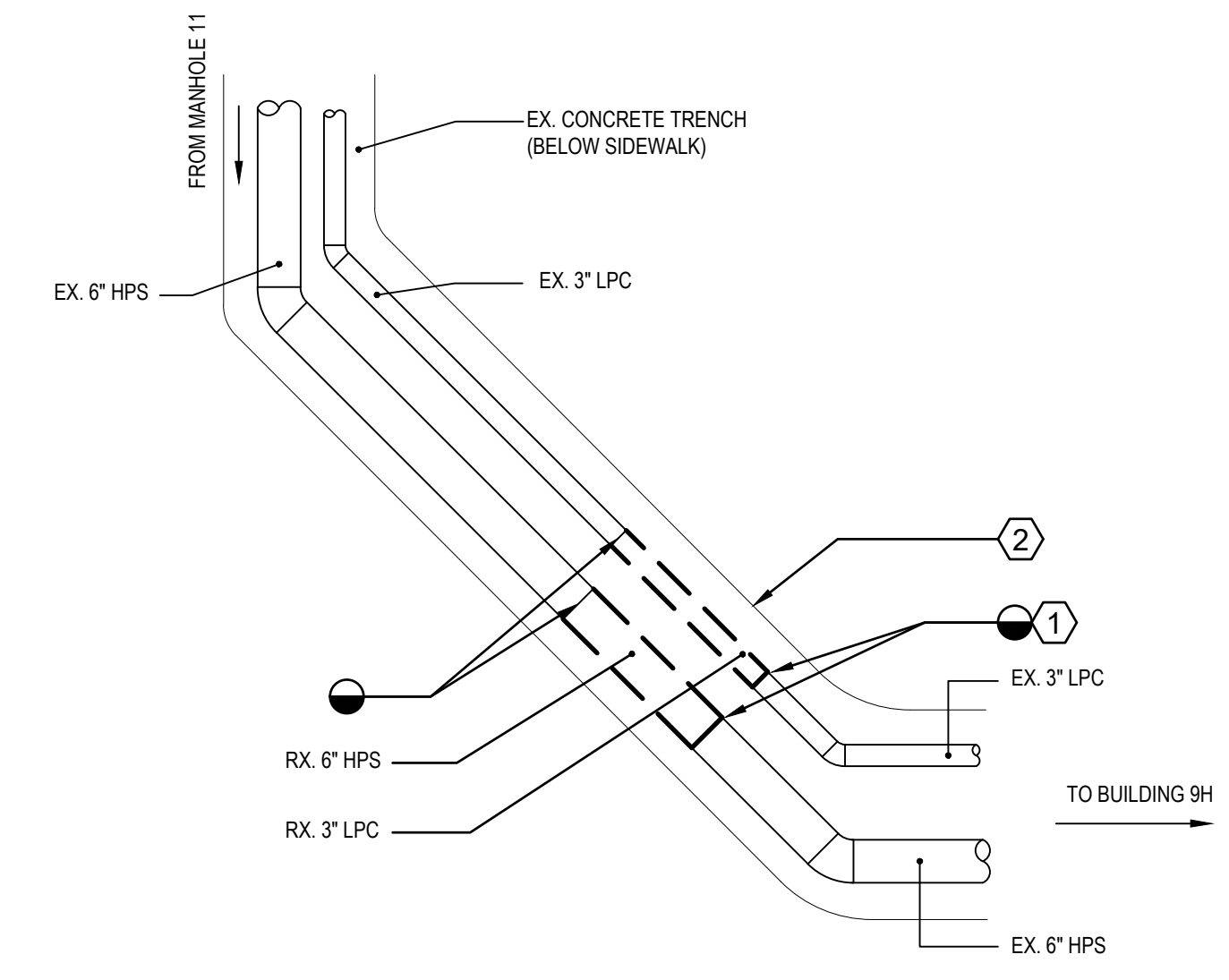
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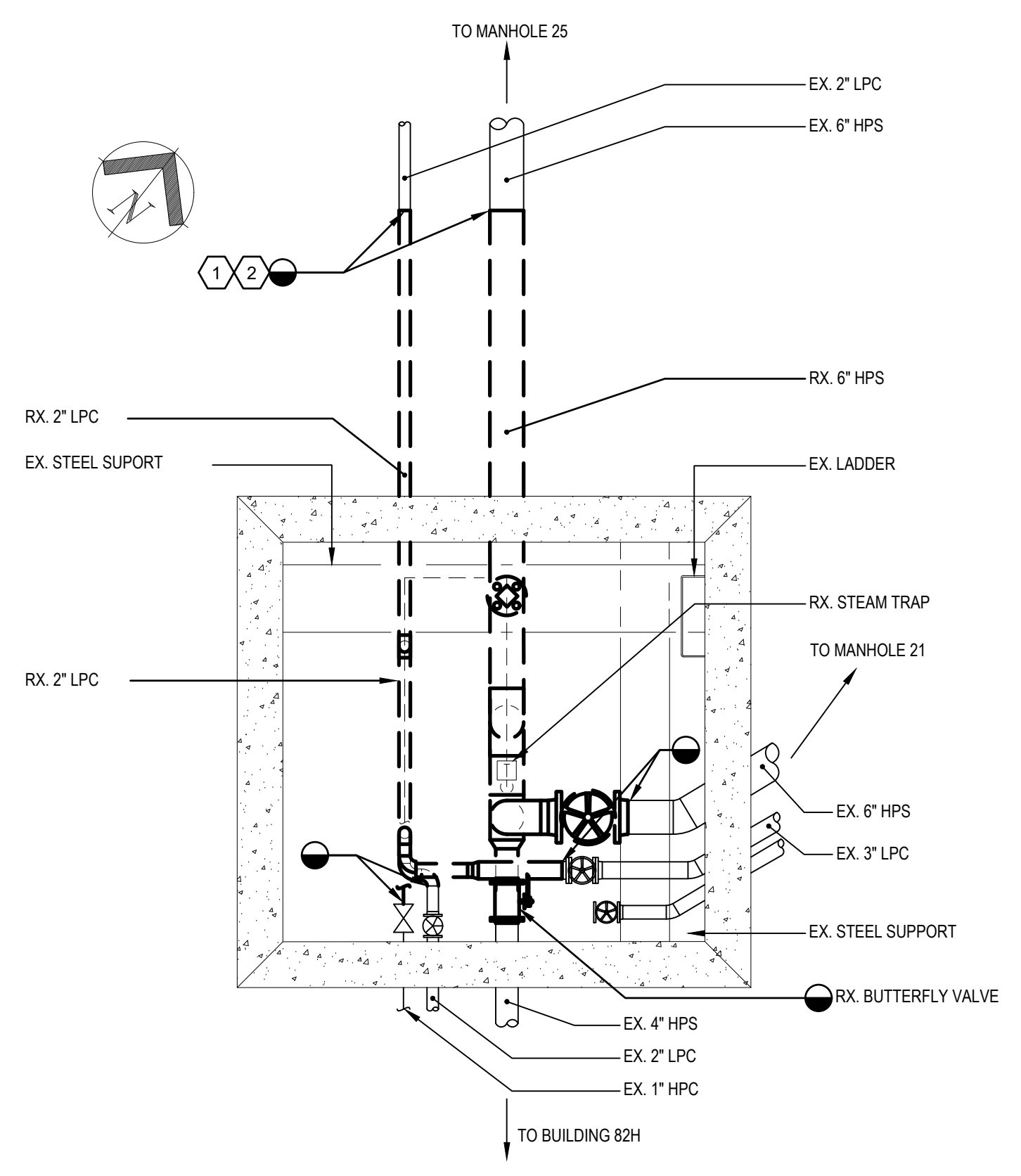
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SCALE: 1/2" = 1'-0"



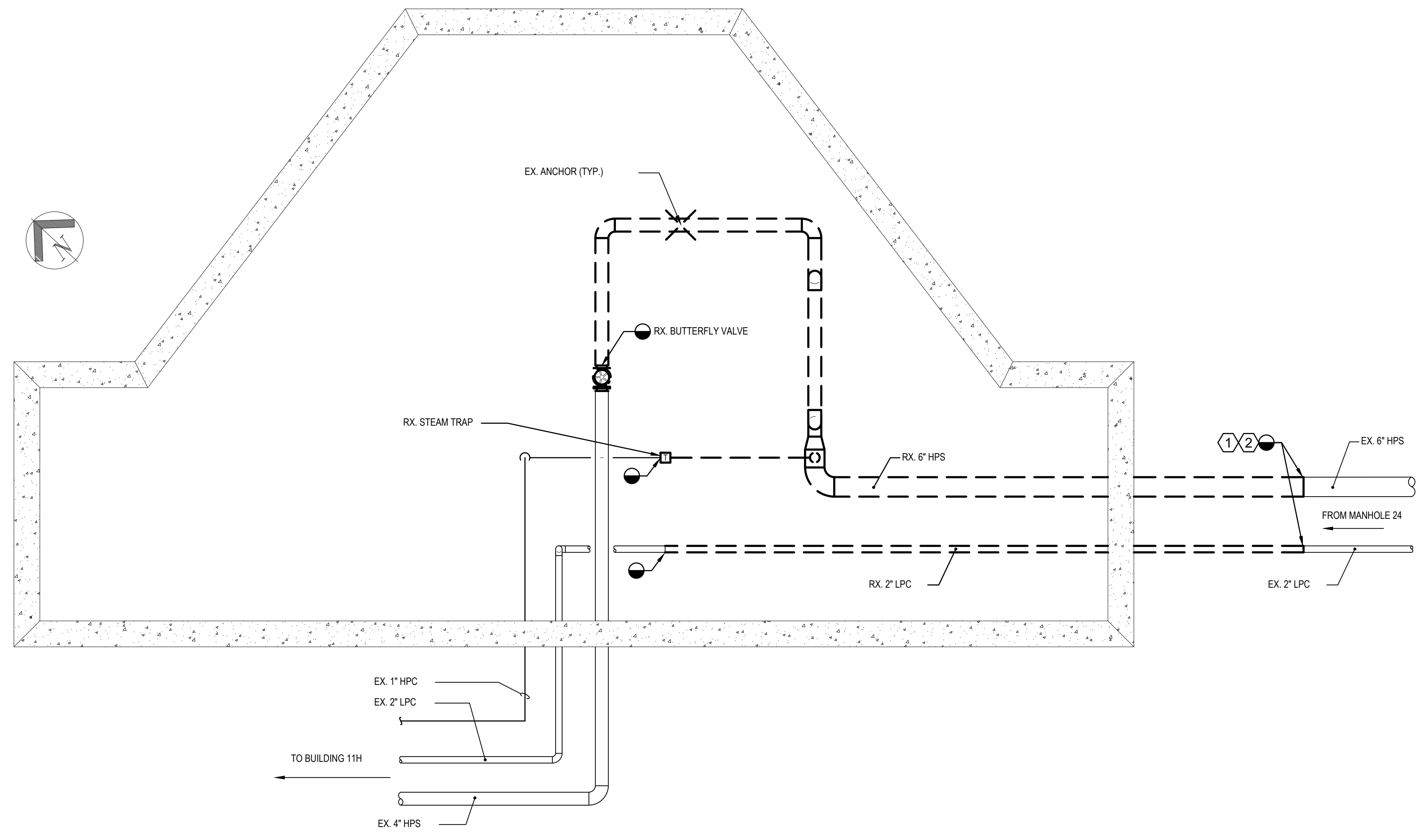
3 MANHOLE 22 PLAN  
SCALE: 1/2" = 1'-0"



4 EXISTING STEAM TRENCH NEAR BLDG 9H  
SCALE: 1/2" = 1'-0"



5 MANHOLE 24 PLAN  
SCALE: 1/2" = 1'-0"



6 MANHOLE 25 PLAN  
SCALE: 1/2" = 1'-0"

**GENERAL NOTES**

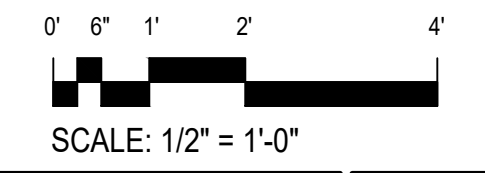
A. TO MAXIMUM EXTENT POSSIBLE, INSTALL NEW PIPING PRIOR TO DEMOLITION OF EXISTING PIPING. STEAM OUTAGES AT THE SITE SHALL BE KEPT TO A MINIMUM.

B. PIPING INSULATION NOT SHOWN FOR CLARITY.

**PLAN NOTES**

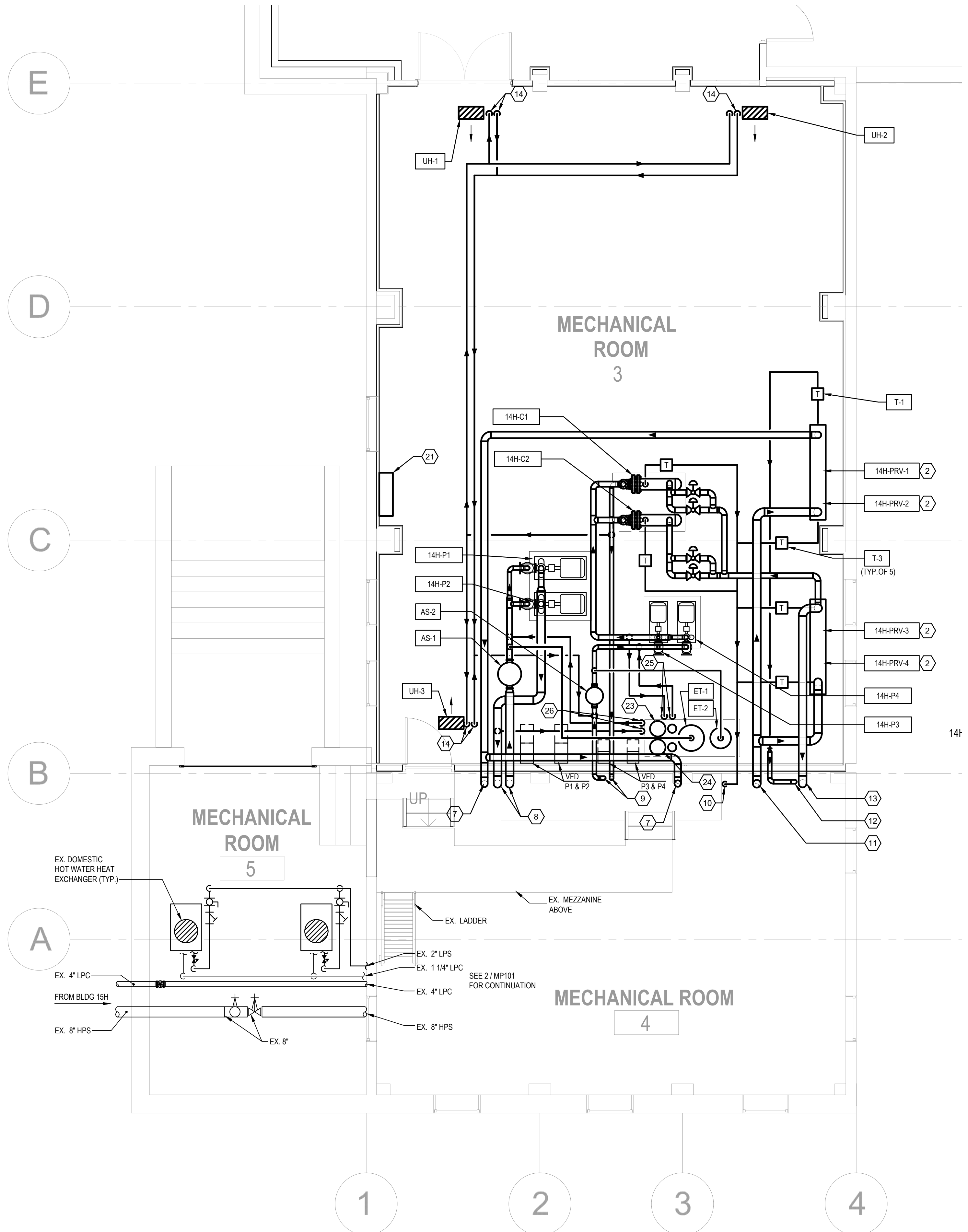
1 CUT AND CAP EXISTING PIPING AT POINT INDICATED.

2 DEMOLISH AND REMOVE EXISTING CONCRETE TRENCH AS REQUIRED TO FACILITATE INSTALLATION OF NEW DIRECT-BURIED PIPING. SEE CIVIL DRAWINGS FOR MORE INFORMATION AND EXACT LOCATIONS OF TIE-IN.



<div>Revisions:</div>		<div>Date:</div>		<div>SUBCONSULTANTS</div> <div><div>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</div><div>ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080</div><div>A. MORTON THOMAS AND ASSOCIATES, INC.</div><div>CIVIL ENGINEER (LANDSCAPE/SURVEY) 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545</div></div> <div><div>MORABITO CONSULTANTS, INC.</div><div>STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377</div><div>APEX COMPANIES, LLC</div><div>INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325</div></div>			<div>ARCH./ENGINEER OF RECORD</div> <div>PRIME A/E:</div> <div><div></div><div>VETERAN DESIGN &amp; CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081</div></div>		<div>STAMP</div> <div><div></div><div>Office of Construction and Facilities Management</div><div> U.S. Department of Veterans Affairs</div></div>	<div>Drawing Title</div> <div>MANHOLE PART PLANS - MECHANICAL PIPING - DEMO</div> <div>Approved: Project Director</div>	<div>Phase</div> <div>100% SUBMISSION</div> <div>-</div>	<div>Project Title</div> <div>UPGRADE STEAM SYSTEM PATIENT AREAS</div> <div>VAMC PERRY POINT</div> <div>Issue Date 02/02/2024</div> <div>Checked MC/NH</div> <div>Drawn AB</div>	<div>Project Number</div> <div>512A5-21-304</div> <div>Building Number</div> <div>--</div> <div>Drawing Number</div> <div>MPD202</div>
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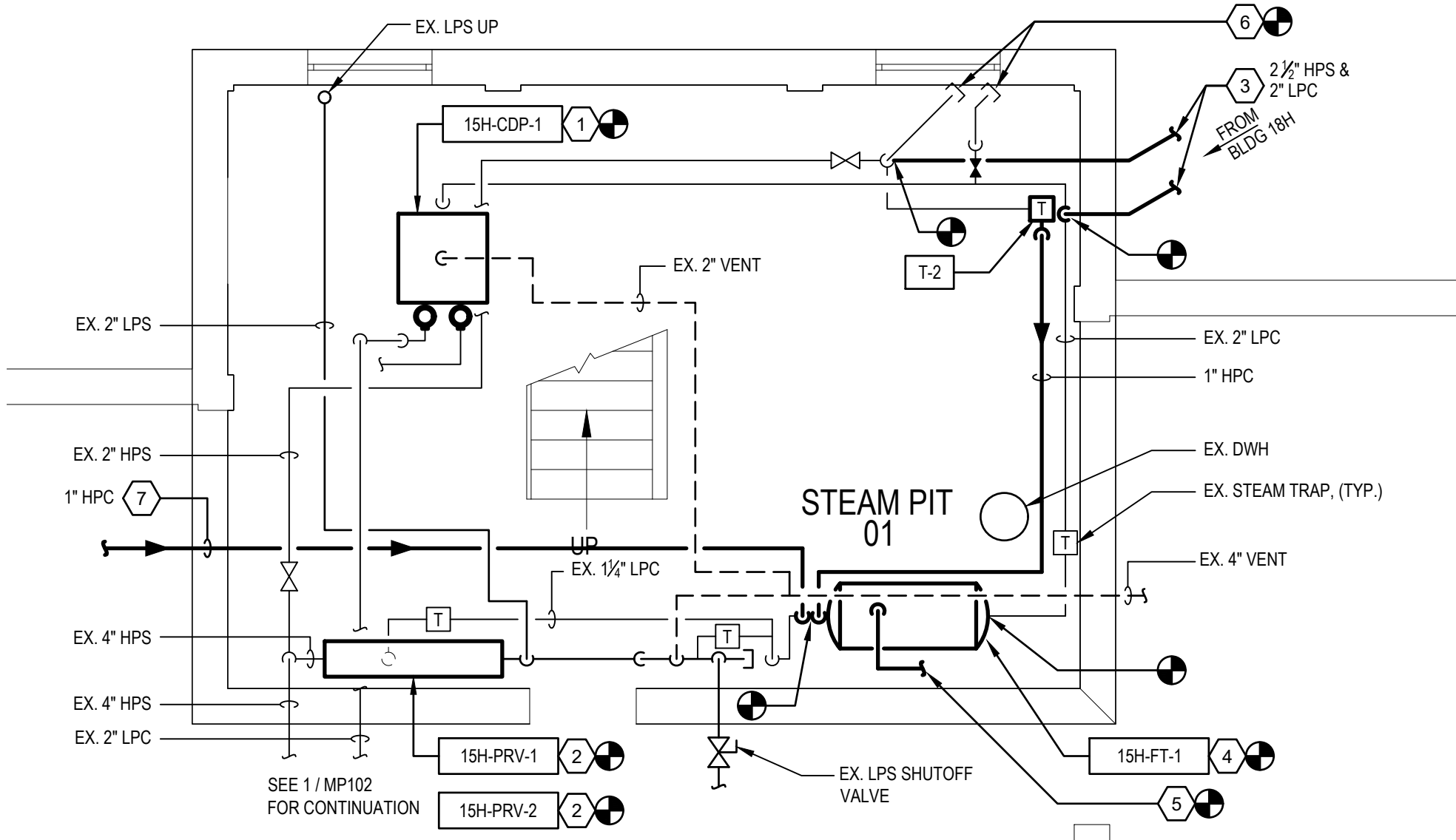


GENERAL NOTES

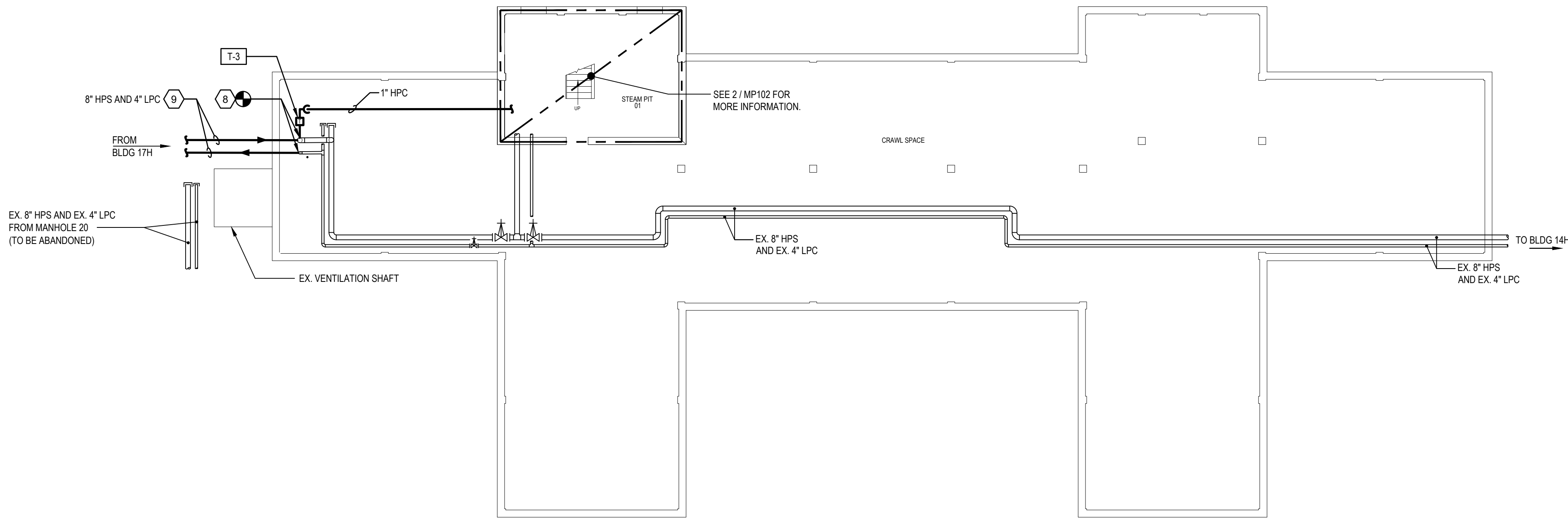
- A. REFER TO PHASING PLANS FOR SEQUENCING OF WORK. NEW WORK SHALL BE INSTALLED TO THE MAXIMUM EXTENT POSSIBLE TO MINIMIZE DOWNTIME REQUIRED FOR SHUTDOWN, DEMOLITION, AND TIE-IN TO EXISTING SYSTEMS.

PLAN NOTES

1. PROVIDE NEW DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK, INCLUDING CONTROL PANELS AND ACCESSORIES. PROVIDE NEW INLET BASKET STRAINER AND ISOLATION VALVE AND DISCHARGE CHECK AND ISOLATION VALVES. SEE DETAILS AND SCHEDULES FOR MORE INFORMATION.
2. PROVIDE NEW PRESSURE REDUCING STATION. SEE SCHEDULES AND DETAILS FOR MORE INFORMATION.
3. NEW DIRECT - BURIED STEAM AND CONDENSATE PIPING. SEE CIVIL PLANS FOR CONTINUATION.
4. PROVIDE NEW FLASH TANK. SEE SCHEDULES AND DETAILS FOR MORE INFORMATION.
5. CONNECT FLASH TANK VENT TO EXISTING VENT PIPING IN MECHANICAL ROOM.
6. EXISTING STEAM AND CONDENSATE PIPING CUT AND CAPPED. PIPING IN TRENCH TO BE ABANDONED IN PLACE.
7. NEW 1" HPC FROM INCOMING STEAM PIPING. EXTEND TO FLASH TANK.
8. CONNECT NEW STEAM AND CONDENSATE TO EXISTING BUILDING SERVICE AT POINT INDICATED.
9. NEW 8" HPS & 4" LPC. SEE CIVIL PLANS FOR CONTINUATION.



2 MECHANICAL ROOM PART PLAN - STEAM PIPING - NEW WORK  
SCALE: 1/4" = 1'-0"



1 BASEMENT PLAN - STEAM PIPING - NEW WORK  
SCALE: 3/32" = 1'-0"

0' 1' 2' 4' 8' 16' 32'  
SCALE: 3/32" = 1'-0"

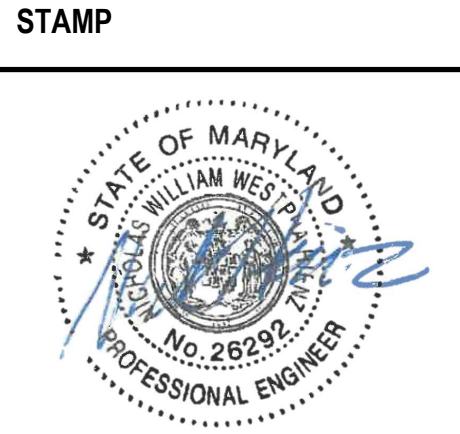
0' 1' 2' 4' 8' 16' 32'  
SCALE: 1/4" = 1'-0"

KEYPLAN  
NO SCALE

Revisions:	Date:

SUBCONSULTANTS		
DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325
A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE) / SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		

ARCH./ENGINEER OF RECORD
PRIME A/E:
VETERAN DESIGN & CONSTRUCTION, INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081



Office of  
Construction  
and Facilities  
Management  
VA U.S. Department  
of Veterans  
Affairs

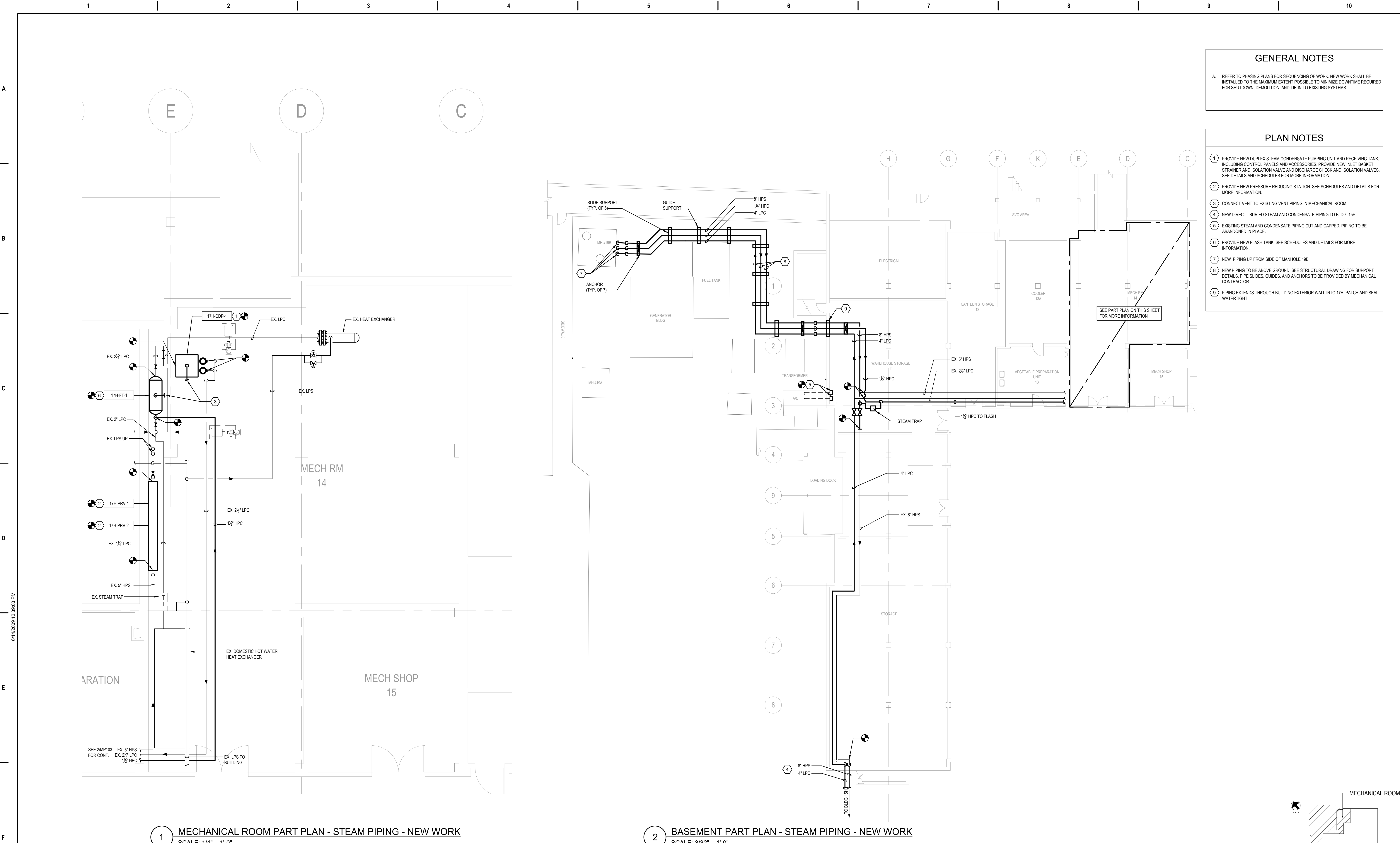
Drawing Title
BASEMENT PLAN - BLDG 15H STEAM PIPING - NEW WORK
Approved: Project Director

Phase
100% SUBMISSION
-

Project Title
UPGRADE STEAM SYSTEM PATIENT AREAS
Location
VAMC PERRY POINT
Issue Date
02/02/2024
Checked
MC/NH
Drawn
MB

Project Number
512A5-21-304
Building Number
15H
Drawing Number
MP102





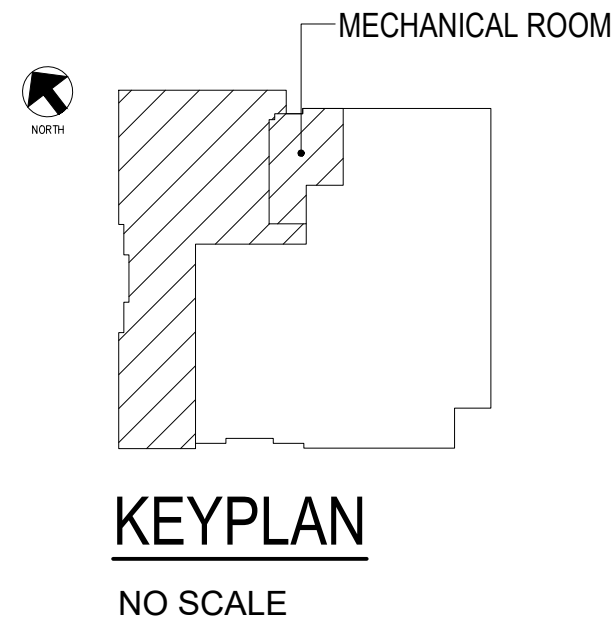
**GENERAL NOTES**

A. REFER TO PHASING PLANS FOR SEQUENCING OF WORK. NEW WORK SHALL BE INSTALLED TO THE MAXIMUM EXTENT POSSIBLE TO MINIMIZE DOWNTIME REQUIRED FOR SHUTDOWN, DEMOLITION, AND TIE-IN TO EXISTING SYSTEMS.

- PLAN NOTES**
1. PROVIDE NEW DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK, INCLUDING CONTROL PANELS AND ACCESSORIES. PROVIDE NEW INLET BASKET STRAINER AND ISOLATION VALVE AND DISCHARGE CHECK AND ISOLATION VALVES. SEE DETAILS AND SCHEDULES FOR MORE INFORMATION.
  2. PROVIDE NEW PRESSURE REDUCING STATION. SEE SCHEDULES AND DETAILS FOR MORE INFORMATION.
  3. CONNECT VENT TO EXISTING VENT PIPING IN MECHANICAL ROOM.
  4. NEW DIRECT - BURIED STEAM AND CONDENSATE PIPING TO BLDG. 15H. SEE DETAILS AND SCHEDULES FOR MORE INFORMATION.
  5. EXISTING STEAM AND CONDENSATE PIPING CUT AND CAPPED. PIPING TO BE ABANDONED IN PLACE.
  6. PROVIDE NEW FLASH TANK. SEE SCHEDULES AND DETAILS FOR MORE INFORMATION.
  7. NEW PIPING UP FROM SIDE OF MANHOLE 19B.
  8. NEW PIPING TO BE ABOVE GROUND. SEE STRUCTURAL DRAWING FOR SUPPORT DETAILS, PIPE SLIDES, GUIDES, AND ANCHORS TO BE PROVIDED BY MECHANICAL CONTRACTOR.
  9. PIPING EXTENDS THROUGH BUILDING EXTERIOR WALL INTO 17H. PATCH AND SEAL WATERTIGHT.


**1 MECHANICAL ROOM PART PLAN - STEAM PIPING - NEW WORK**  
SCALE: 1/4" = 1'-0"

**2 BASEMENT PART PLAN - STEAM PIPING - NEW WORK**  
SCALE: 3/32" = 1'-0"



0' 5'-4" 10'-8" 21'-4"  
SCALE: 3/32" = 1'-0"

0' 1' 2' 4' 8'  
SCALE: 1/4" = 1'-0"

		SUBCONSULTANTS			ARCH/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title			Project Number		
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080  A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE) SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377			APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	PRIME A/E:   VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081	BASEMENT PLAN - BLDG 17H STEAM PIPING - NEW WORK	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS			512A5-21-304
Revisions:		Date:							Approved: Project Director	-	Location VAMC PERRY POINT			Building Number 17H	
							VA U.S. Department of Veterans Affairs			Issue Date 02/02/2024			Checked MC/NH	Drawn DS	Drawing Number MP103



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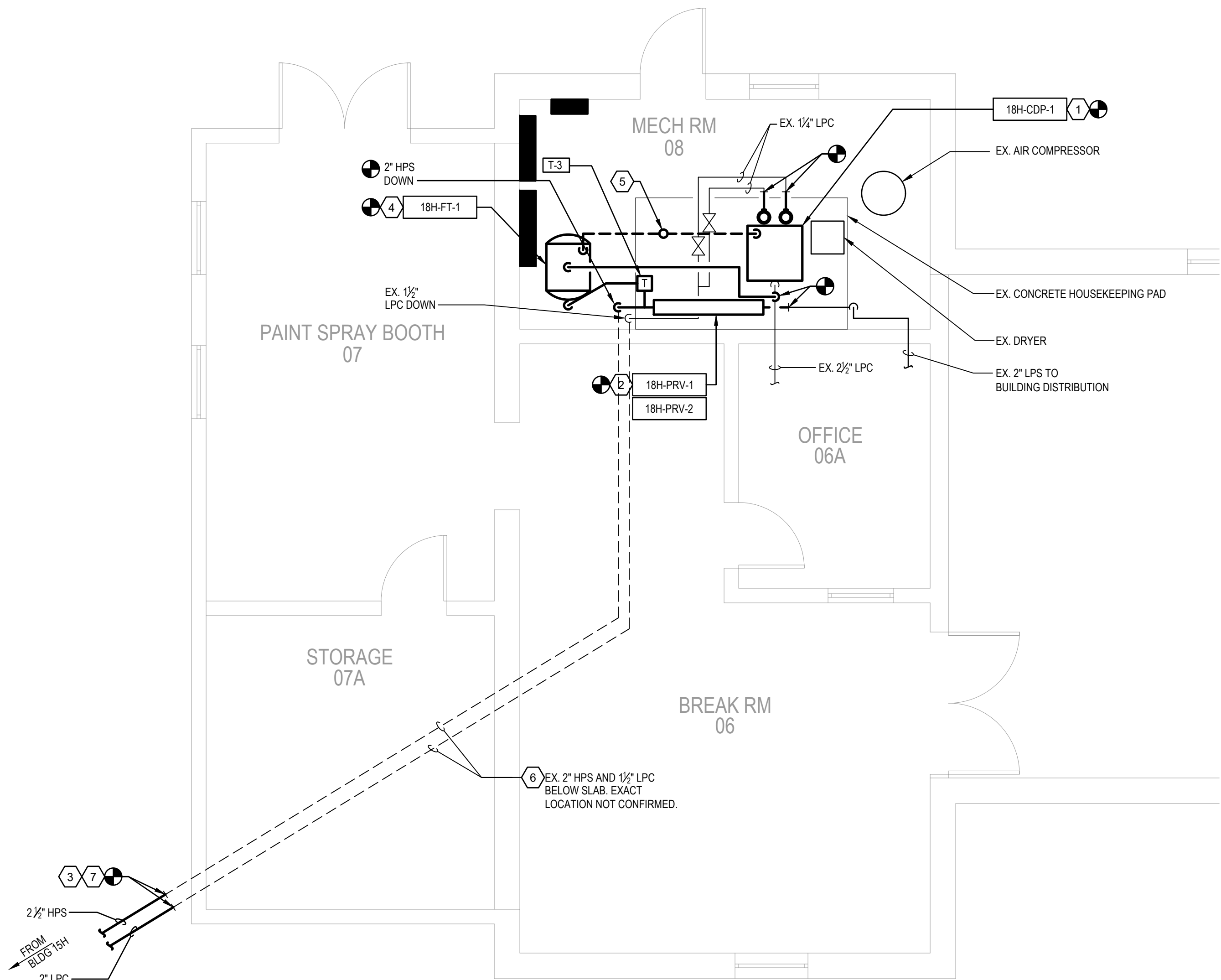
6/14/2024 12:39:03 PM

GENERAL NOTES

A. REFER TO PHASING PLANS 6003 FOR SEQUENCING OF WORK. NEW WORK SHALL BE INSTALLED TO THE MAXIMUM EXTENT POSSIBLE TO MINIMIZE DOWNTIME REQUIRED FOR SHUTDOWN, DEMOLITION, AND TIE-IN TO EXISTING SYSTEMS.

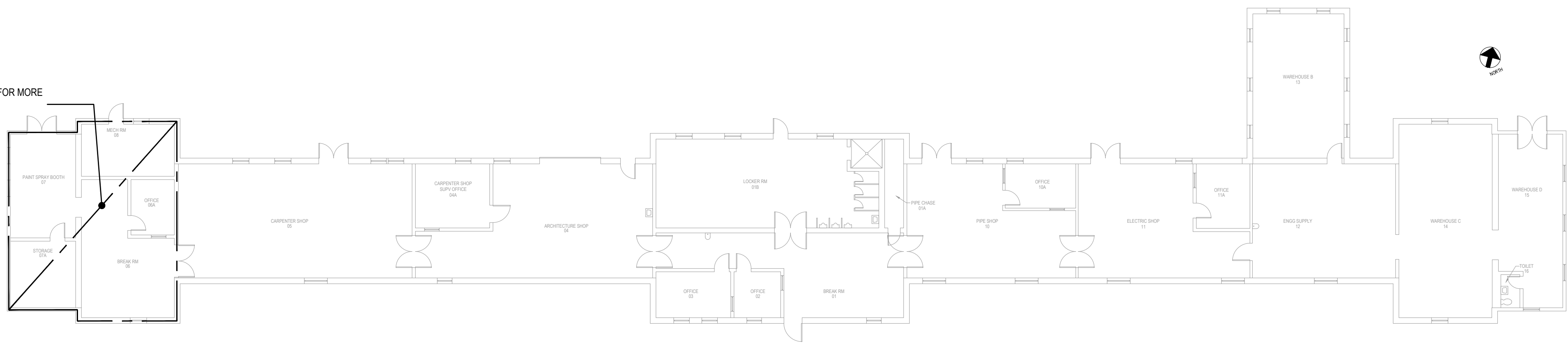
PLAN NOTES

- 1 PROVIDE NEW DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK, INCLUDING CONTROL PANELS AND ACCESSORIES. PROVIDE NEW INLET BASKET STRAINER AND ISOLATION VALVE AND DISCHARGE CHECK AND ISOLATION VALVES. SEE DETAILS AND SCHEDULES FOR MORE INFORMATION.
- 2 PROVIDE NEW STEAM PRESSURE REDUCING STATION. SEE DETAILS AND SCHEDULES FOR MORE INFORMATION.
- 3 CONNECT NEW DIRECT - BURIED STEAM AND CONDENSATE PIPING TO BUILDING SERVICE AT POINT INDICATED. SEE CIVIL PLANS FOR CONTINUATION.
- 4 PROVIDE NEW FLASH TANK. SEE SCHEDULES AND DETAILS FOR MORE INFORMATION.
- 5 PROVIDE NEW VENT THROUGH ROOF FOR FLASH TANK.
- 6 BELOW GRADE PIPING TO BE TESTED FOR CONTINUITY PRIOR TO FINAL TIE-IN.
- 7 BELOW GRADE PIPE CONNECTION SHOULD BE ±24" FROM NEAREST ANCHOR LOCATION.



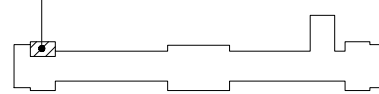
1 MECHANICAL ROOM PART PLAN - STEAM PIPING - NEW WORK  
SCALE: 1/4" = 1'-0"

SEE 1/MP104 FOR MORE INFORMATION.



2 FIRST FLOOR PLAN - STEAM PIPING - NEW WORK  
SCALE: 1/16" = 1'-0"

MECHANICAL ROOM




0' 4' 8' 16' 32'  
SCALE: 1/16" = 1'-0"

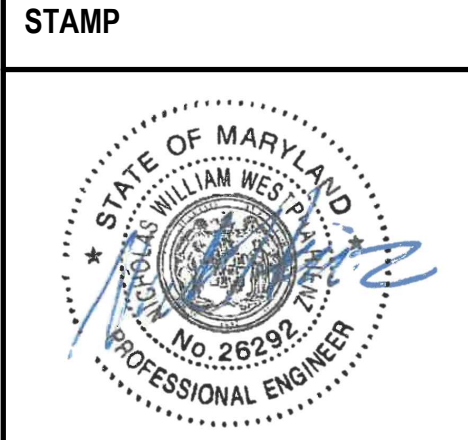
0' 1' 2' 4' 8'  
SCALE: 1/4" = 1'-0"

NO SCALE

Revisions:	Date:

SUBCONSULTANTS		
<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	<b>MORABITO CONSULTANTS, INC.</b> STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325
<b>A. MORTON THOMAS AND ASSOCIATES, INC.</b> CIVIL ENGINEER (LANDSCAPE)/SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		

ARCH/ENGINEER OF RECORD
PRIME A/E:  <b>VETERAN DESIGN &amp; CONSTRUCTION INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081



Office of  
Construction  
and Facilities  
Management  
  
**VA** U.S. Department  
of Veterans  
Affairs

Drawing Title
<b>FIRST FLOOR PLAN - BLDG 18H STEAM PIPING - NEW WORK</b>
Approved: Project Director

Phase
100% SUBMISSION
-

Project Title		
UPGRADE STEAM SYSTEM PATIENT AREAS		
Location		
VAMC PERRY POINT		
Issue Date	Checked	Drawn
02/02/2024	MC/NH	DS

Project Number
512A5-21-304
Building Number
18H
Drawing Number
MP104

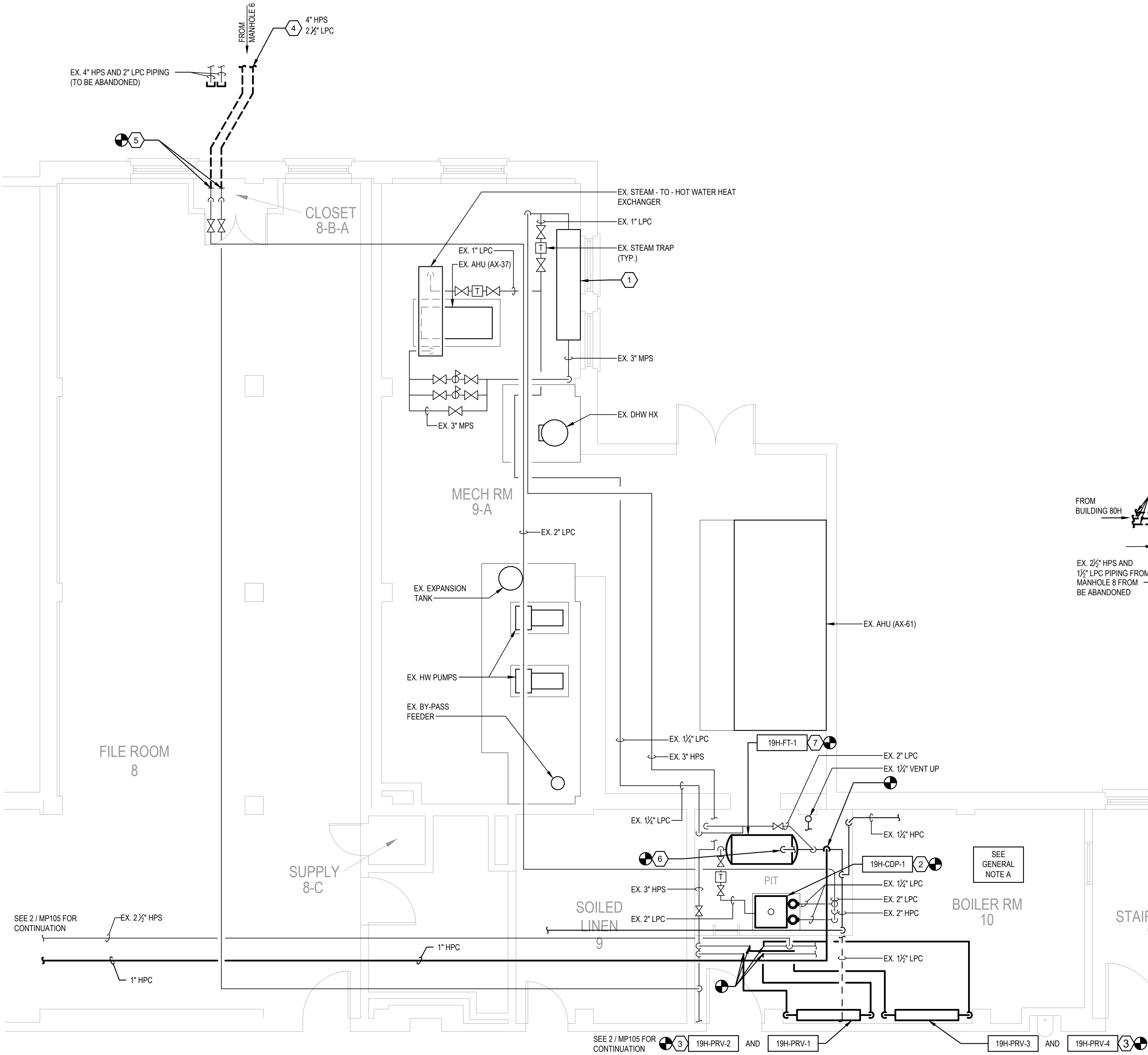


PLAN NOTES

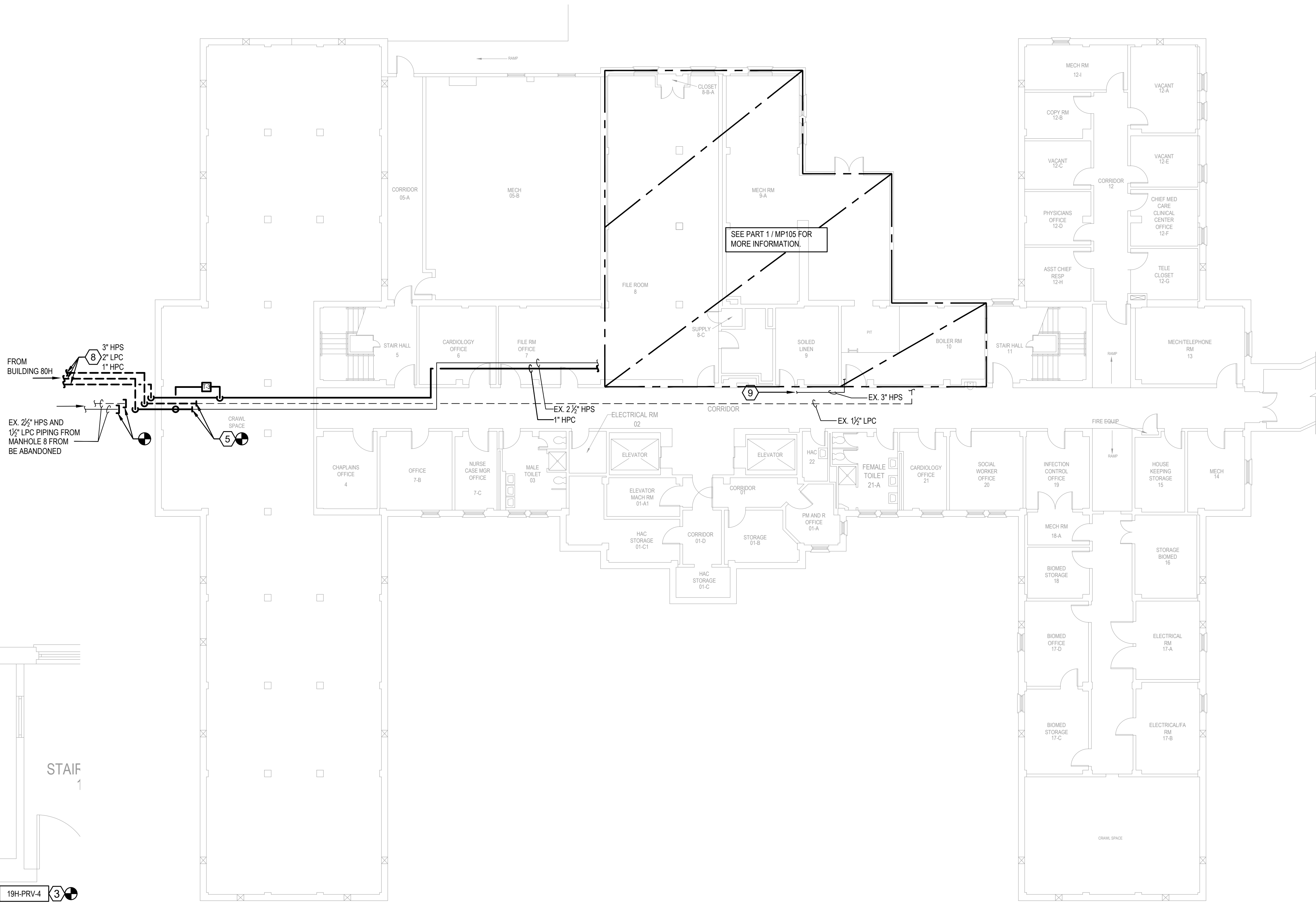
- EXISTING STEAM PRESSURE REDUCING STATION TO REMAIN.
- PROVIDE NEW DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK, INCLUDING CONTROL PANELS AND ACCESSORIES. PROVIDE NEW INLET BASKET STRAINER AND ISOLATION VALVE AND DISCHARGE CHECK AND ISOLATION VALVES. SEE DETAILS AND SCHEDULES FOR MORE INFORMATION.
- PROVIDE NEW STEAM PRESSURE REDUCING STATION. SEE DETAILS AND SCHEDULES FOR MORE INFORMATION.
- NEW DIRECT-BURIED STEAM AND CONDENSATE PIPING. SEE CIVIL PLANS FOR CONTINUATION.
- CONNECT NEW STEAM AND CONDENSATE TO EXISTING BUILDING SERVICE AT POINT INDICATED.
- CONNECT FLASH TANK VENT TO EXISTING VENT PIPING IN MECHANICAL ROOM.
- PROVIDE NEW FLASH TANK. SEE DETAILS AND SCHEDULES FOR MORE INFORMATION.
- NEW DIRECT-BURIED STEAM AND CONDENSATE PIPING TO BUILDING 80H. SEE CIVIL PLANS FOR CONTINUATION.
- SURVEY CONDITIONS UNATAINABLE FOR THIS CONTINUATION.

GENERAL NOTES

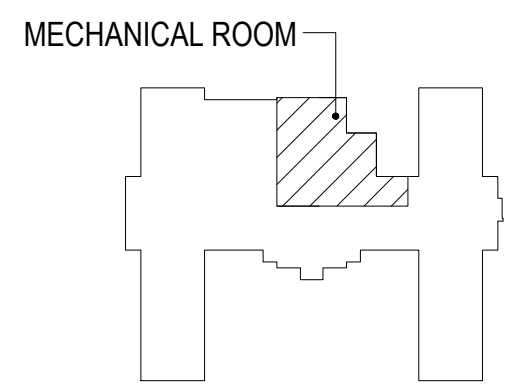
- BOILER ROOM 10 IS EXTREMELY CONGESTED AREA. WORK WITHIN ROOM SHALL BE COORDINATED WITH THE VA REGARDING ESTIMATED DOWNTIME FOR DEMOLITION AND NEW WORK. REMOVE EXISTING KNOWN ABANDONED PIPING WITHIN ROOM TO GREATEST EXTENT POSSIBLE. CONFIRM ALL PIPING REMOVAL WITH VA FACILITIES.
- REFER TO PHASING PLANS G203 FOR SEQUENCING OF WORK. NEW WORK SHALL BE INSTALLED TO THE MAXIMUM EXTENT POSSIBLE TO MINIMIZE DOWNTIME REQUIRED FOR SHUTDOWN, DEMOLITION, AND TIE-IN TO EXISTING SYSTEMS.



1 MECHANICAL ROOM PART PLAN - STEAM PIPING - NEW WORK  
SCALE: 1/4" = 1'-0"




2 BASEMENT PLAN - STEAM PIPING - NEW WORK  
SCALE: 3/32" = 1'-0"



0' 5'-4" 10'-8" 21'-4"  
SCALE: 1/4" = 1'-0"

0' 1' 2' 4' 8'  
SCALE: 1/4" = 1'-0"  
KEYPLAN  
NO SCALE

		SUBCONSULTANTS			ARCH/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	BASEMENT PLAN - BLDG 19H STEAM PIPING - NEW WORK	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS			512A5-21-304		
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325			PRIME A/E:  VETERAN DESIGN & CONSTRUCTION, INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		Building Number 19H				
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE) SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545									Location VAMC PERRY POINT			Drawing Number	
												Issue Date 02/02/2024			MP105
												Checked MC/NH	Drawn DS		
Revisions:									Approved: Project Director	-					



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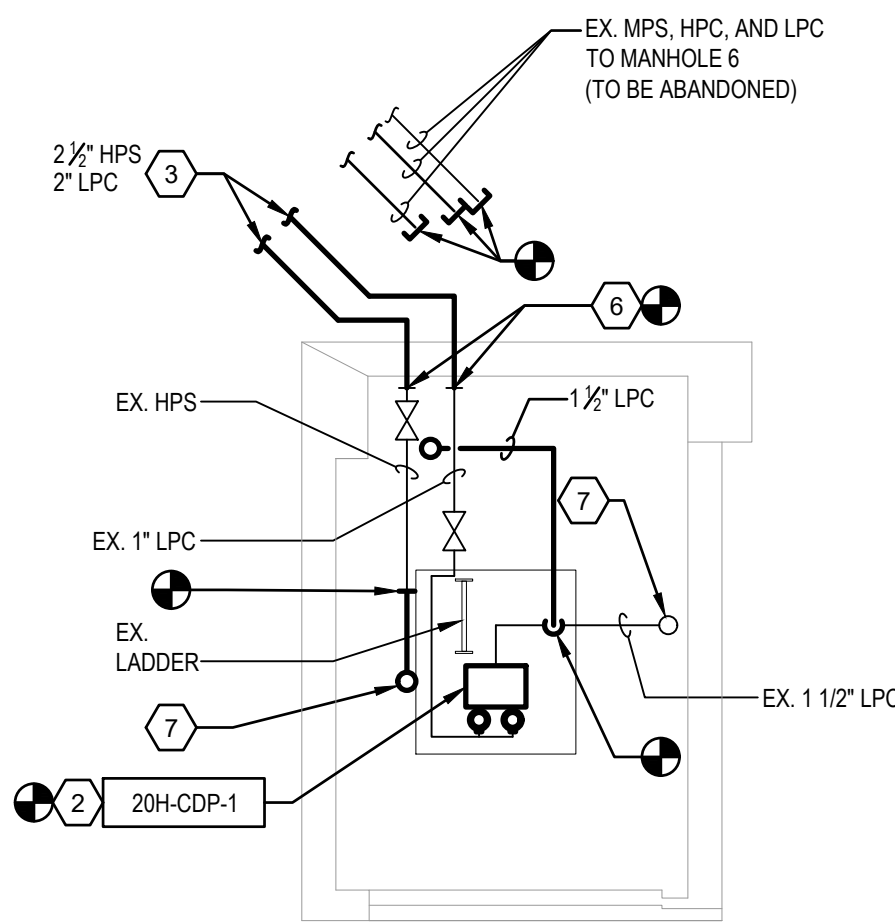
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GENERAL NOTES

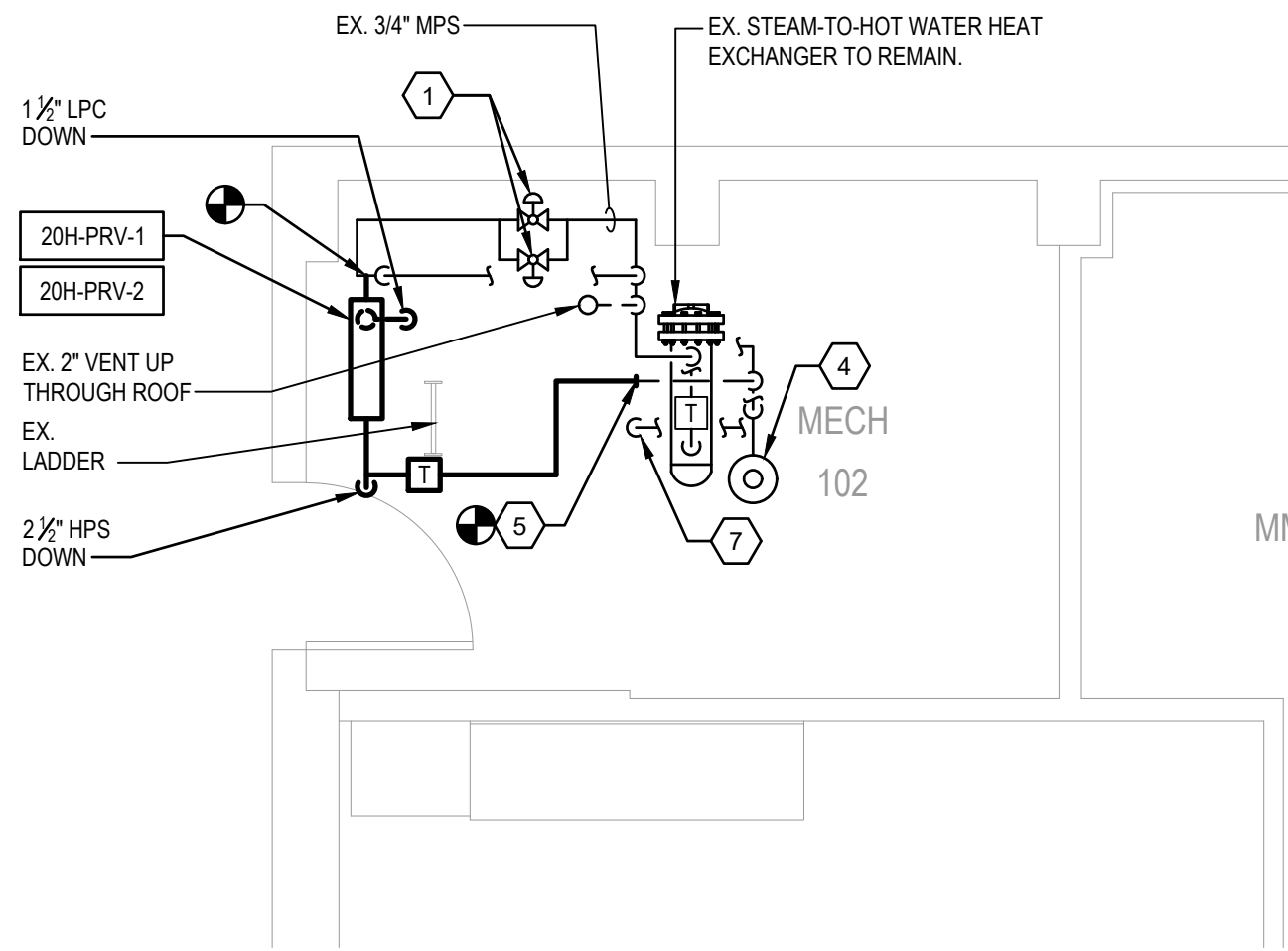
- A. REFER TO PHASING PLANS 0303 FOR SEQUENCING OF WORK. NEW WORK SHALL BE INSTALLED TO THE MAXIMUM EXTENT POSSIBLE TO MINIMIZE DOWNTIME REQUIRED FOR SHUTDOWN, DEMOLITION, AND TIE-IN TO EXISTING SYSTEMS.

PLAN NOTES

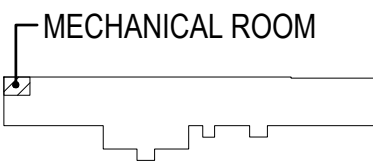
- 1 EXISTING CONTROL VALVES TO REMAIN.  
2 PROVIDE NEW DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK. INCLUDE CONTROL PANELS AND ACCESSORIES. PROVIDE NEW INLET BASKET STRAINER AND ISOLATION VALVE AND DISCHARGE CHECK AND ISOLATION VALVES. SEE DETAILS AND SCHEDULES FOR MORE INFORMATION.  
3 NEW DIRECT BURIED STEAM AND CONDENSATE PIPING TO MANHOLE 6. SEE CIVIL PLANS FOR CONTINUATION.  
4 EXISTING FLASH TANK TO REMAIN.  
5 CONNECT NEW HPC TO EXISTING FLASH TANK.  
6 CONNECT NEW STEAM AND CONDENSATE TO EXISTING BUILDING SERVICE AT POINT INDICATED.  
7 SEE 2 / MP106 FOR PIPE CONTINUATION.



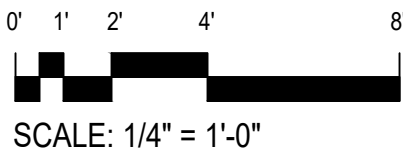
1 MECHANICAL ROOM SUB-BASEMENT PART PLAN - STEAM PIPING - NEW WORK  
SCALE: 1/4" = 1'-0"



2 MECHANICAL ROOM GROUND FLOOR PART PLAN - STEAM PIPING - NEW WORK  
SCALE: 1/4" = 1'-0"



NO SCALE

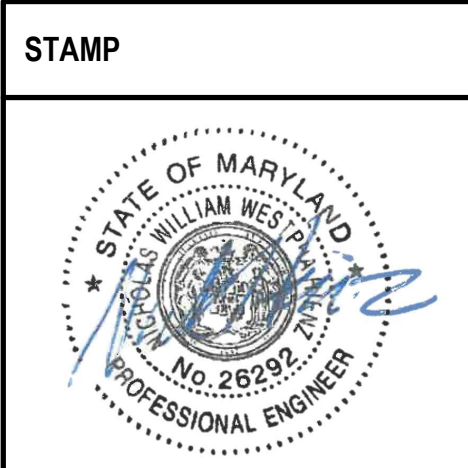


SCALE: 1/4" = 1'-0"

Revisions:	Date:

SUBCONSULTANTS		
<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	<b>MORABITO CONSULTANTS, INC.</b> STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENIST 13850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325
<b>A. MORTON THOMAS AND ASSOCIATES, INC.</b> CIVIL ENGINEER, LANDSCAPE/ SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		

ARCH./ENGINEER OF RECORD
PRIME A/E:  <b>VETERAN DESIGN &amp; CONSTRUCTION INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081

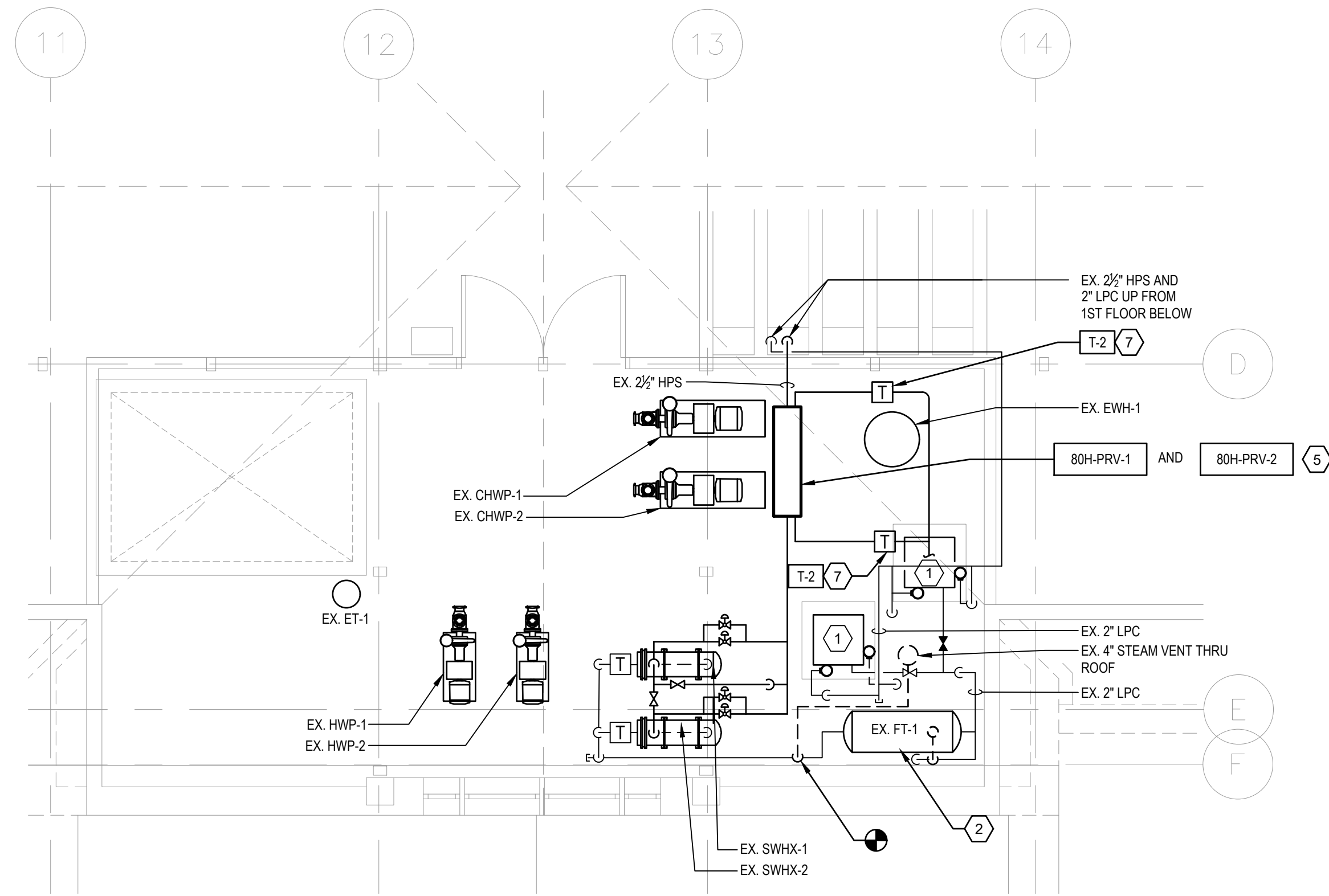


Office of  
Construction  
and Facilities  
Management

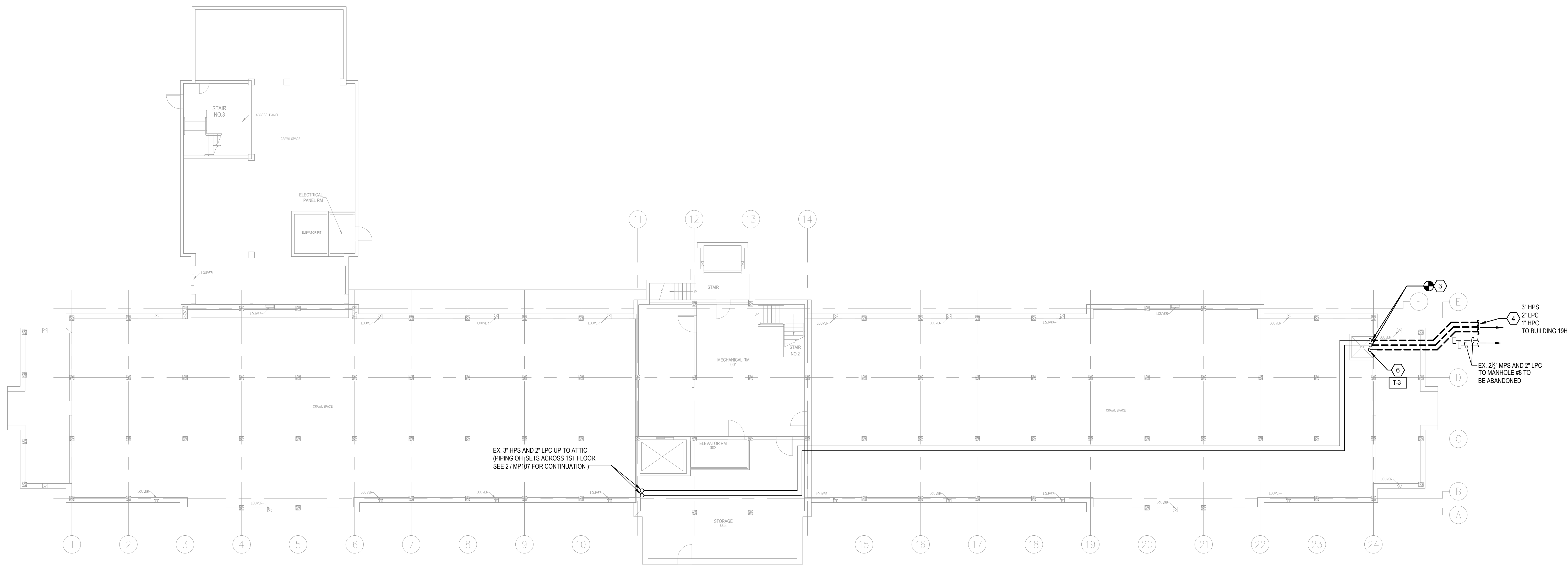
**VA** | U.S. Department  
of Veterans  
Affairs

Drawing Title <b>FIRST FLOOR PLAN - BLDG 20H STEAM PIPING - NEW WORK</b>	Phase 100% SUBMISSION	Project Title <b>UPGRADE STEAM SYSTEM PATIENT AREAS</b>	Project Number <b>512A5-21-304</b>
Approved: Project Director	-	Location <b>VAMC PERRY POINT</b>	Building Number <b>20H</b>
		Issue Date <b>02/02/2024</b>	Checked <b>MC/NH</b>
		Drawn <b>DS</b>	Drawing Number <b>MP106</b>





2 ATTIC PLAN - STEAM PIPING - NEW WORK  
SCALE: 1/4" = 1'-0"

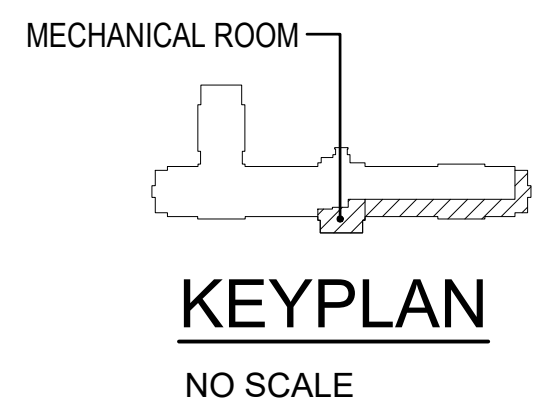


1 BASEMENT PLAN - STEAM PIPING - NEW WORK  
SCALE: 3/32" = 1'-0"

**GENERAL NOTES**



A. REFER TO PHASING PLANS 0003 FOR SEQUENCING OF WORK. NEW WORK SHALL BE INSTALLED TO THE MAXIMUM EXTENT POSSIBLE TO MINIMIZE DOWNTIME REQUIRED FOR SHUTDOWN, DEMOLITION, AND TIE-IN TO EXISTING SYSTEMS.

- PLAN NOTES**
- EXISTING DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK TO REMAIN.
  - EXISTING FLASH TANK TO REMAIN.
  - CONNECT NEW DIRECT-BURIED STEAM AND CONDENSATE PIPING TO BUILDING SERVICE AT POINT INDICATED.
  - NEW DIRECT-BURIED STEAM AND CONDENSATE PIPING TO BUILDING 19H. SEE CIVIL PLANS FOR CONTINUATION.
  - PROVIDE NEW PRESSURE REDUCING STATION. SEE M503 SCHEDULES AND DETAILS FOR MORE INFORMATION.
  - NEW STEAM TRAP ON INCOMING HPS AT CONNECTION POINT. EXTEND 1" HPC TO BUILDING 19H.
  - CONNECT NEW CONDENSATE TO EXISTING FLASH TANK INLET.

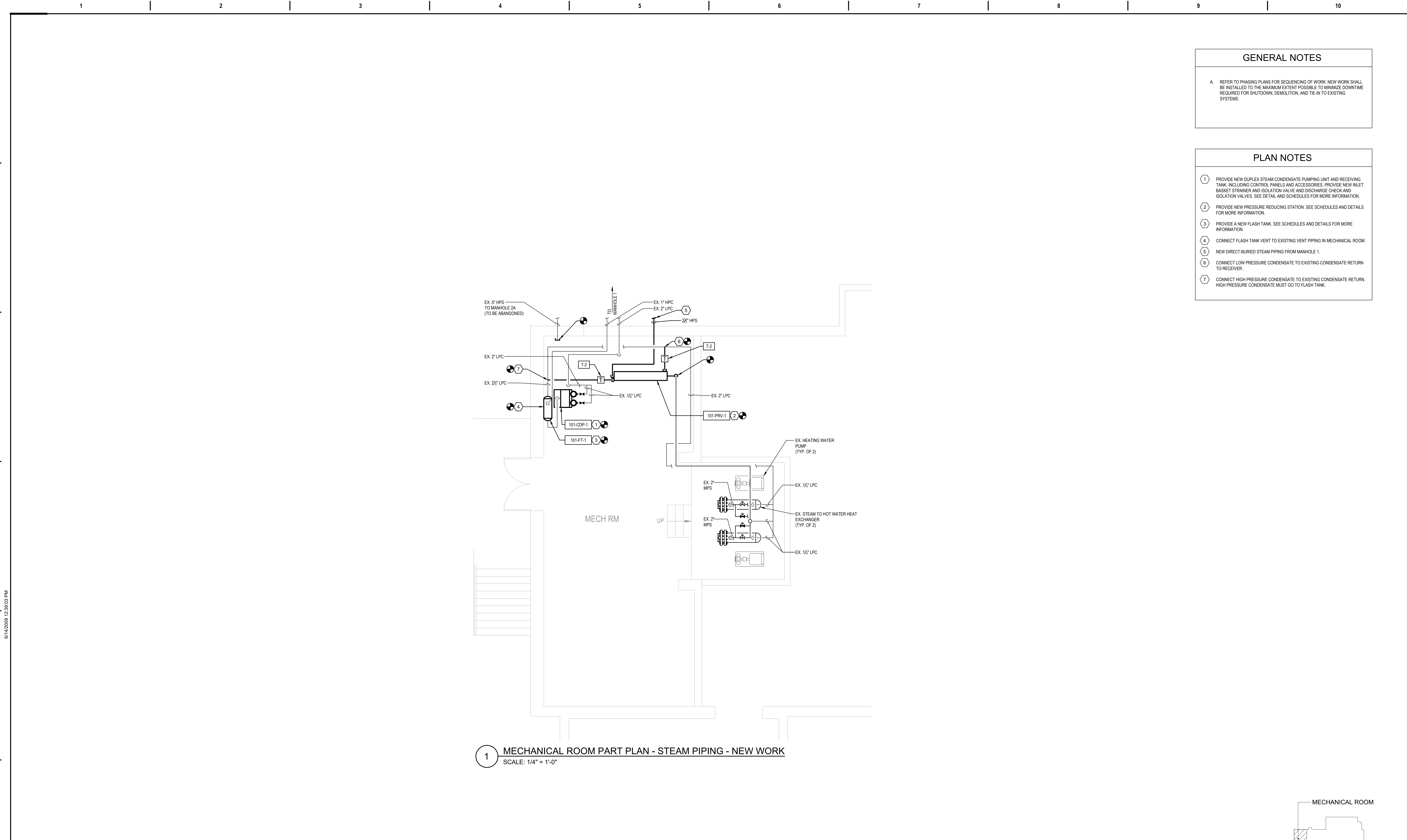


0' 5'-4" 10'-8" 21'-4"  
SCALE: 3/32" = 1'-0"

0' 1' 2' 4' 8'  
SCALE: 1/4" = 1'-0"

		SUBCONSULTANTS			ARCH/ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title	Phase	Project Title	Project Number		
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325		PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		BASEMENT PLAN - BLDG 80H STEAM PIPING - NEW WORK	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS	512A5-21-304
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER /LANDSCAPE/ SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545						Approved: Project Director	-	Location	Building Number		
Revisions:								VA	U.S. Department of Veterans Affairs	VAMC PERRY POINT		Drawing Number	
Date:										Issue Date	Checked	Drawn	MP107
										02/02/2024	MC/NH	MB	





**GENERAL NOTES**

A. REFER TO PHASING PLANS FOR SEQUENCING OF WORK. NEW WORK SHALL BE INSTALLED TO THE MAXIMUM EXTENT POSSIBLE TO MINIMIZE DOWNTIME REQUIRED FOR SHUTDOWN, DEMOLITION, AND TIE-IN TO EXISTING SYSTEMS.

- PLAN NOTES**
- 1. PROVIDE NEW DUPLEX STEAM CONDENSATE PUMPING UNIT AND RECEIVING TANK, INCLUDING CONTROL PANELS AND ACCESSORIES. PROVIDE NEW INLET BASKET STRAINER AND ISOLATION VALVE AND DISCHARGE CHECK AND ISOLATION VALVES. SEE DETAIL AND SCHEDULES FOR MORE INFORMATION.
  - 2. PROVIDE NEW PRESSURE REDUCING STATION. SEE SCHEDULES AND DETAILS FOR MORE INFORMATION.
  - 3. PROVIDE A NEW FLASH TANK. SEE SCHEDULES AND DETAILS FOR MORE INFORMATION.
  - 4. CONNECT FLASH TANK VENT TO EXISTING VENT PIPING IN MECHANICAL ROOM.
  - 5. NEW DIRECT-BURIED STEAM PIPING FROM MANHOLE 1.
  - 6. CONNECT LOW PRESSURE CONDENSATE TO EXISTING CONDENSATE RETURN TO RECEIVER.
  - 7. CONNECT HIGH PRESSURE CONDENSATE TO EXISTING CONDENSATE RETURN. HIGH PRESSURE CONDENSATE MUST GO TO FLASH TANK.

6/14/2025 12:39:03 PM

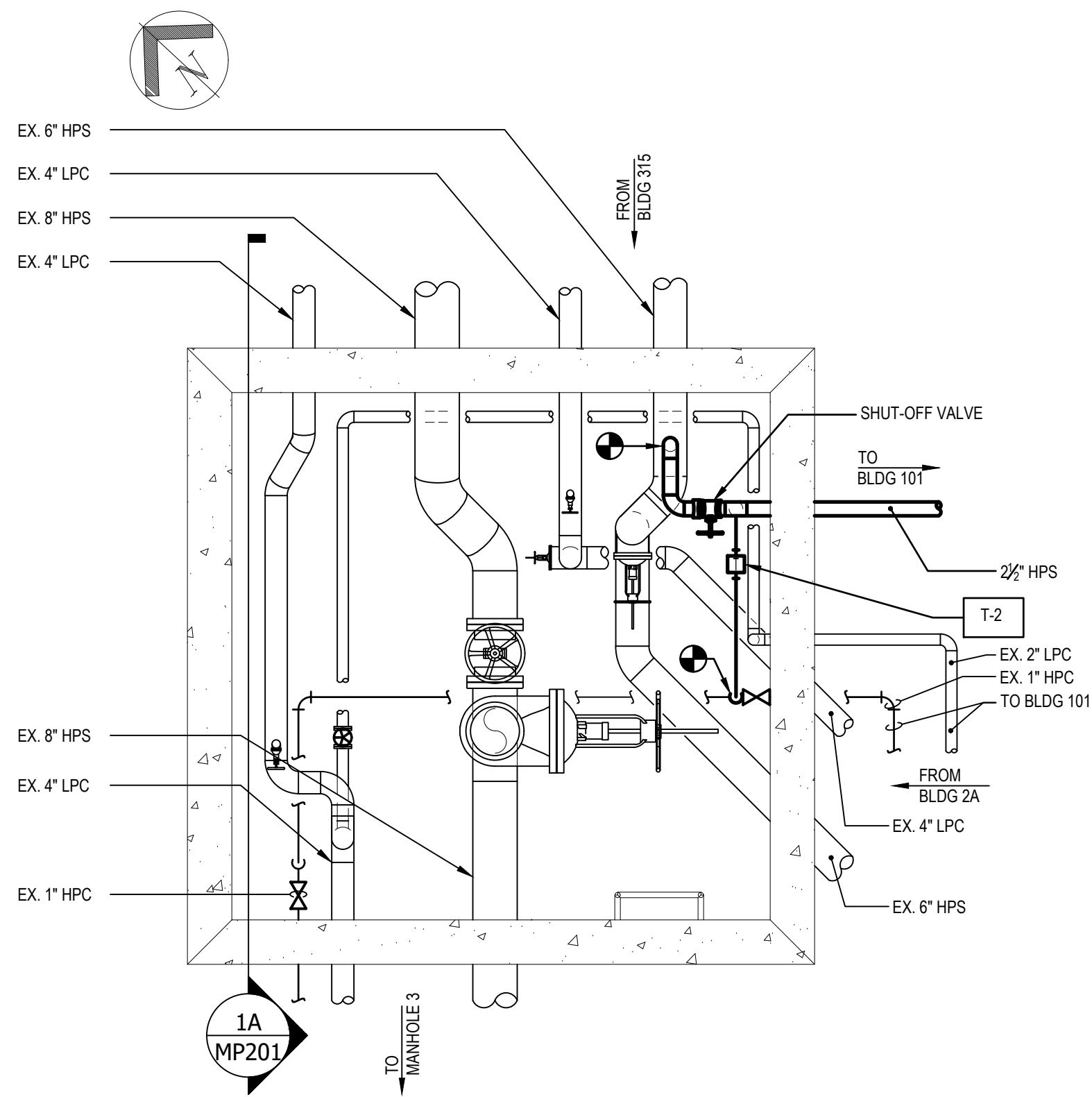
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		<b>SUBCONSULTANTS</b>	<b>ARCH./ENGINEER OF RECORD</b>	<b>STAMP</b>	<b>Office of Construction and Facilities Management</b> <b>VA</b> U.S. Department of Veterans Affairs	<b>Drawing Title</b> BASEMENT PLAN - BLDG 101 STEAM PIPING -NEW WORK	<b>Phase</b> 100% SUBMISSION	<b>Project Title</b> UPGRADE STEAM SYSTEM PATIENT AREAS	<b>Project Number</b> 512A5-21-304
		<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080 <b>A. MORTON THOMAS AND ASSOCIATES, INC.</b> CIVIL ENGINEER, LANDSCAPE/ SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545	<b>MORABITO CONSULTANTS, INC.</b> STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325		<b>PRIME A/E:</b>  <b>VETERAN DESIGN &amp; CONSTRUCTION INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081			<b>Building Number</b> 101
						<b>Approved: Project Director</b>		<b>Location</b> VAMC PERRY POINT	<b>Drawing Number</b> MP108
								<b>Issue Date</b> 02/02/2024	<b>Checked</b> MC/NH
								<b>Drawn</b> DS	

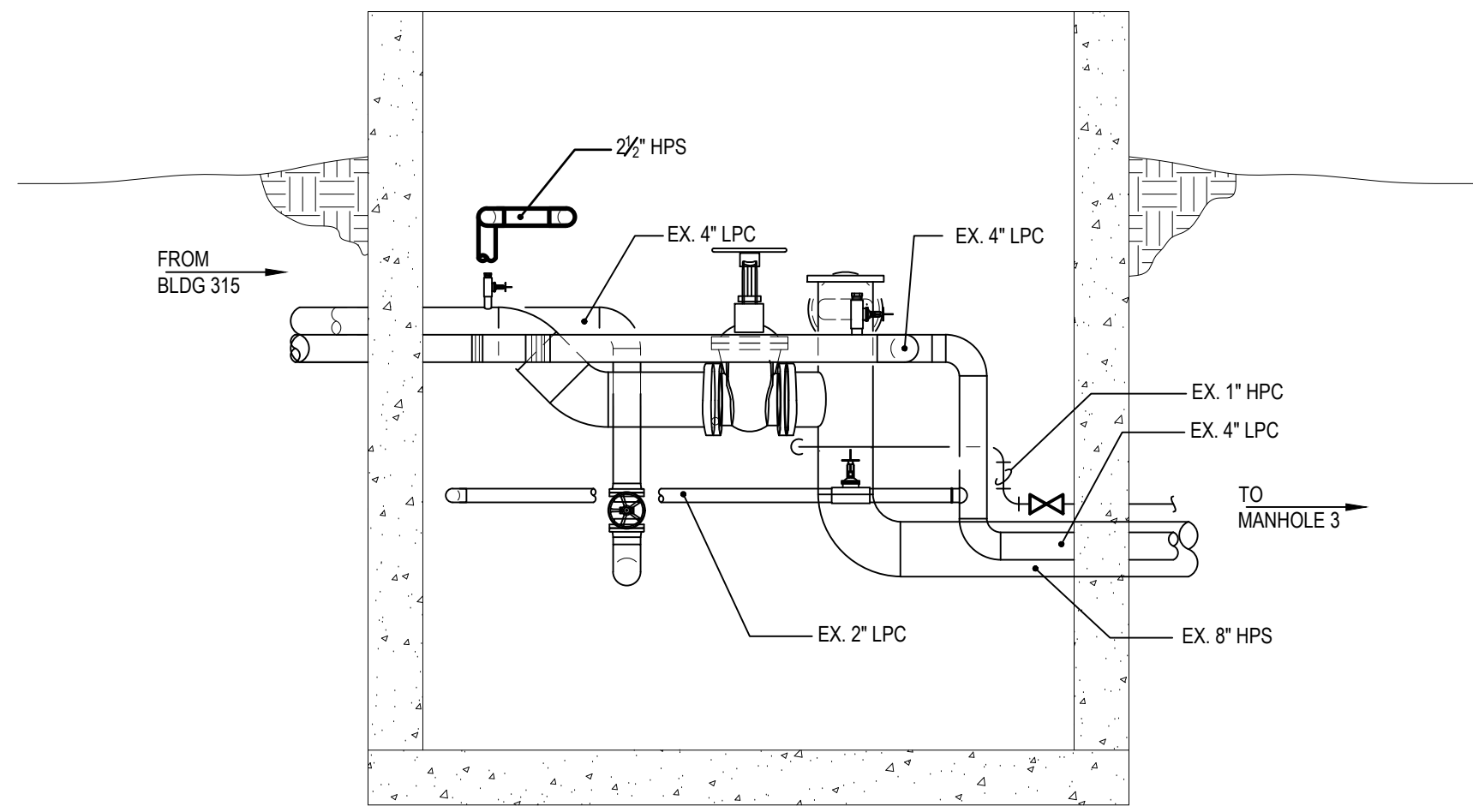
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12

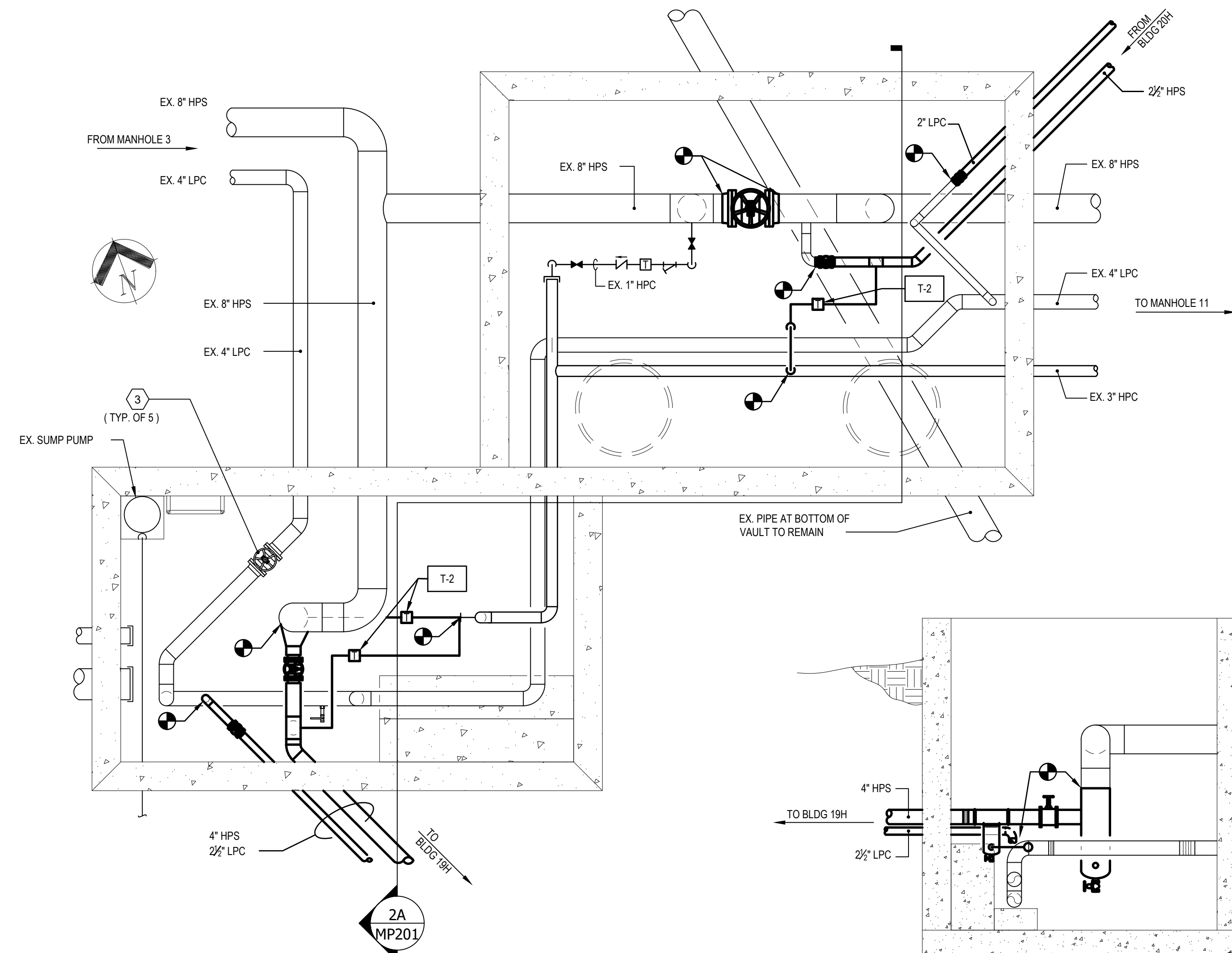




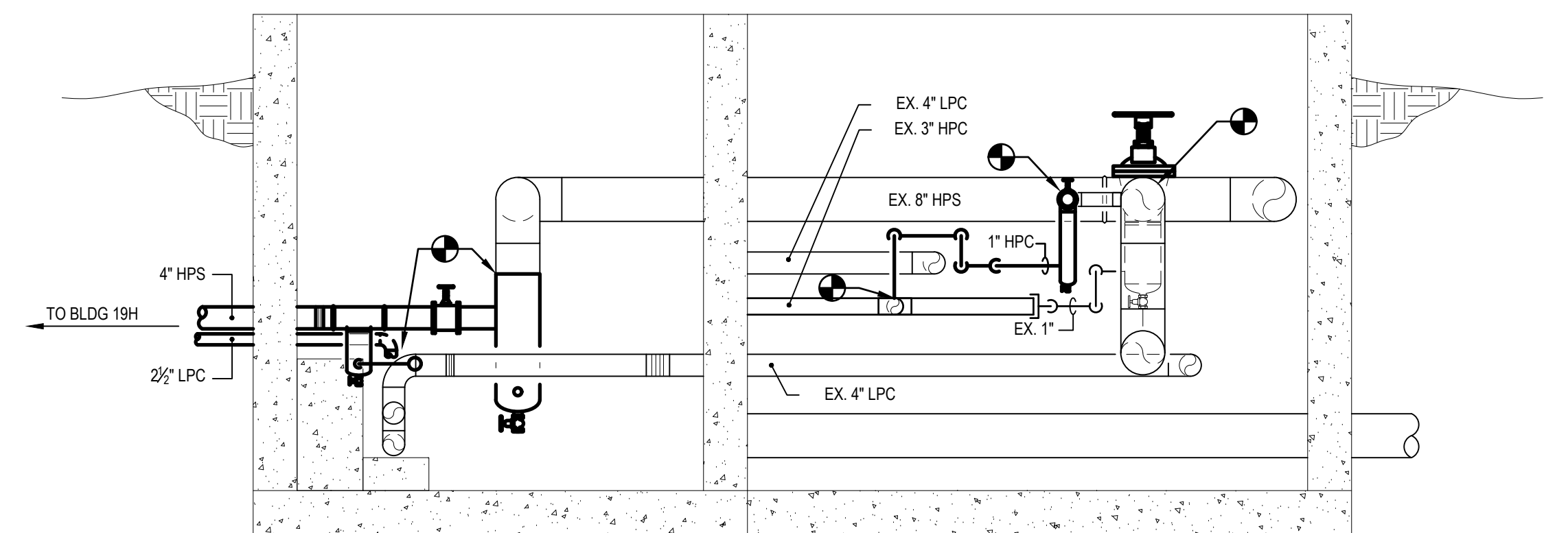
1 MANHOLE 1 PLAN  
SCALE: 1/2" = 1'-0"



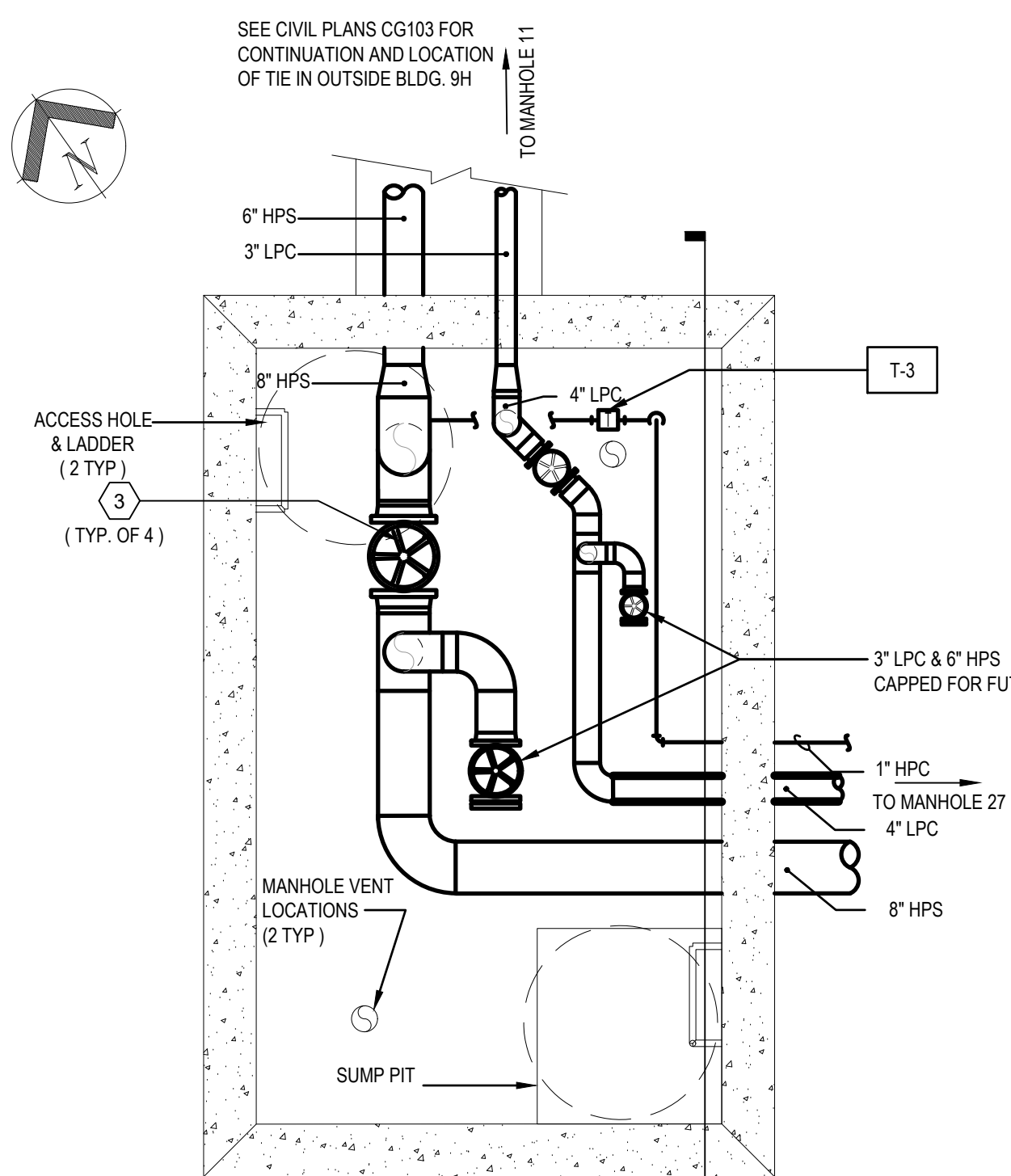
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SCALE: 1/2" = 1'-0"



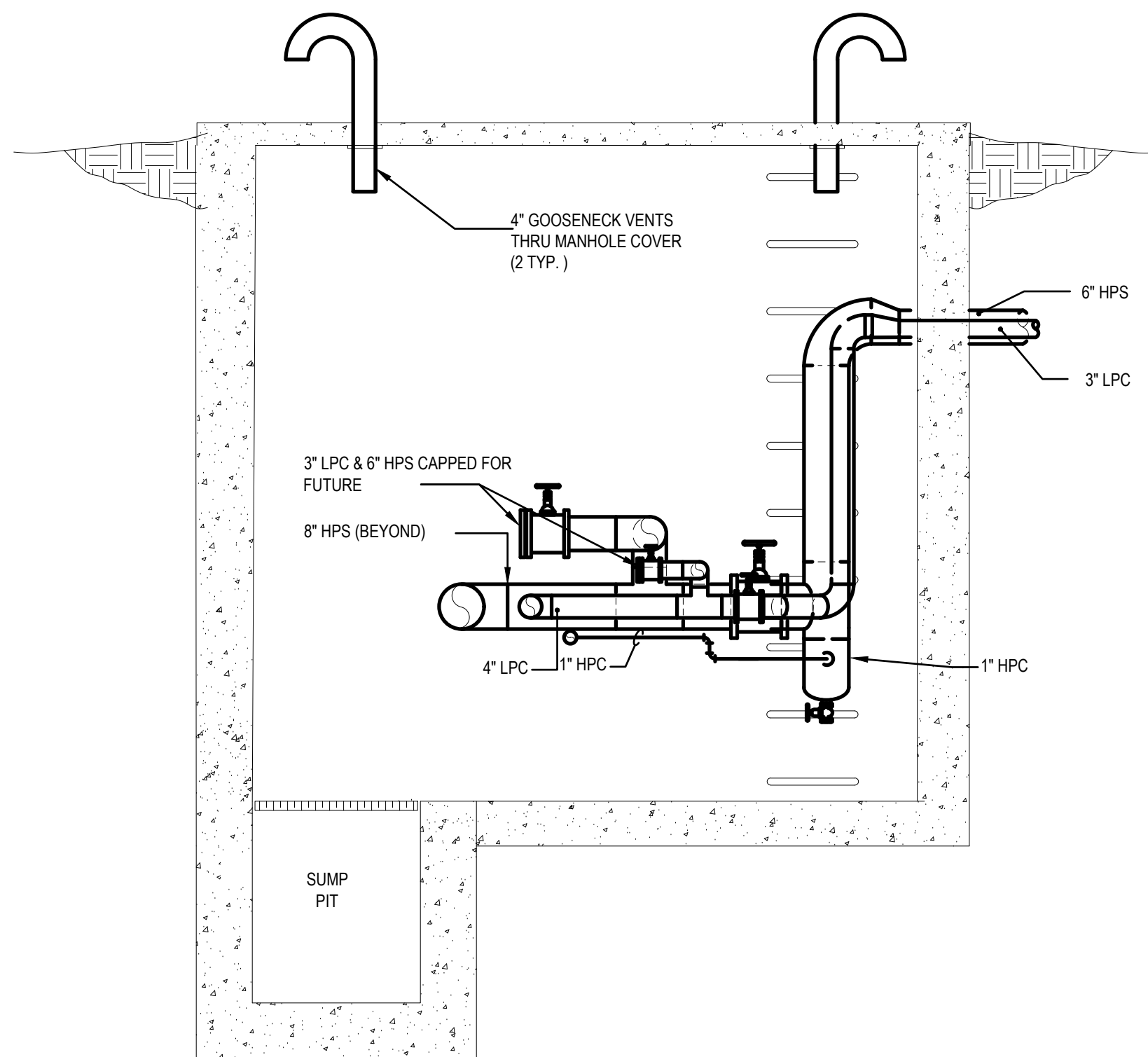
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SCALE: 1/2" = 1'-0"



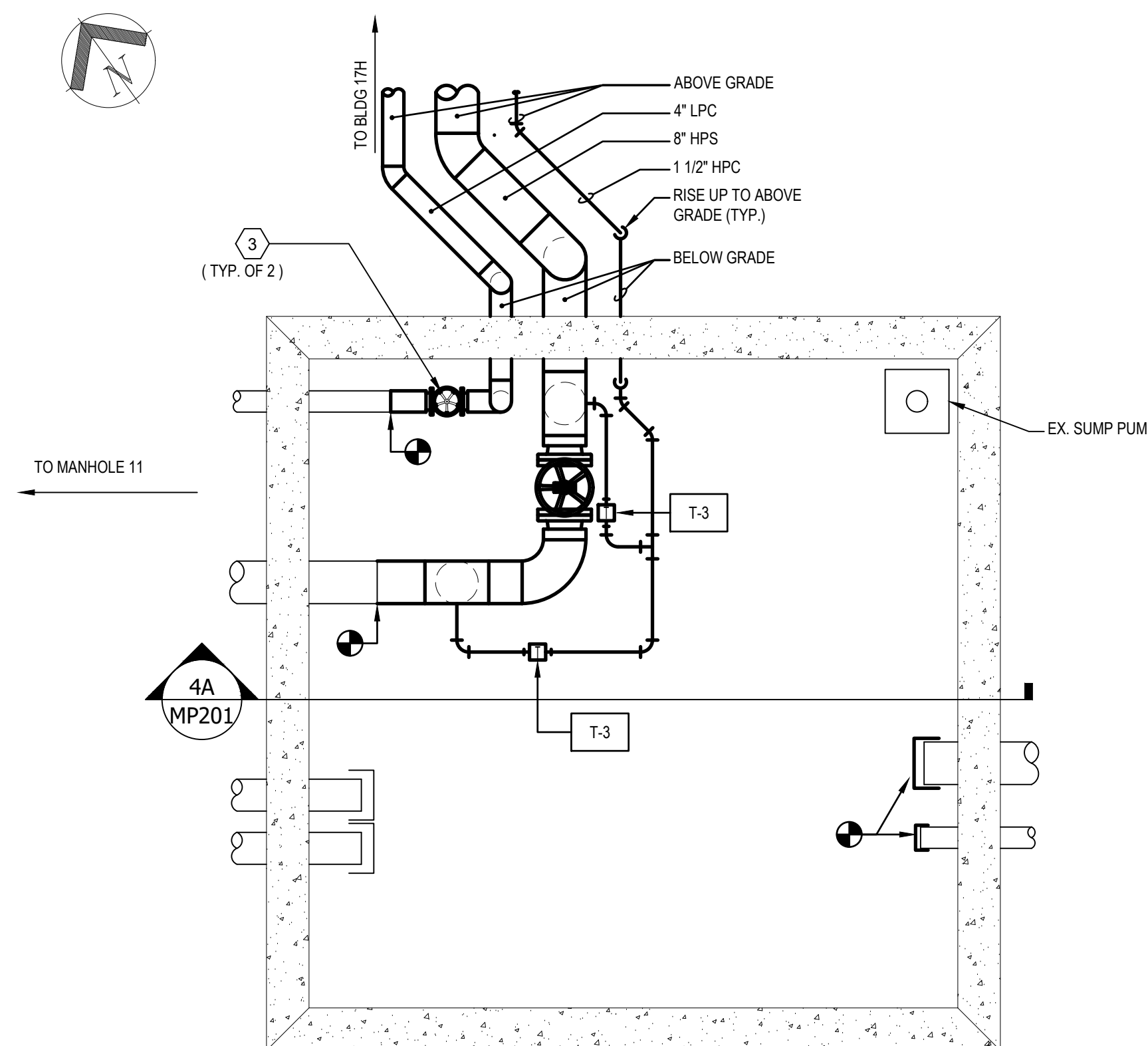
2A MANHOLE 6 SECTION VIEW  
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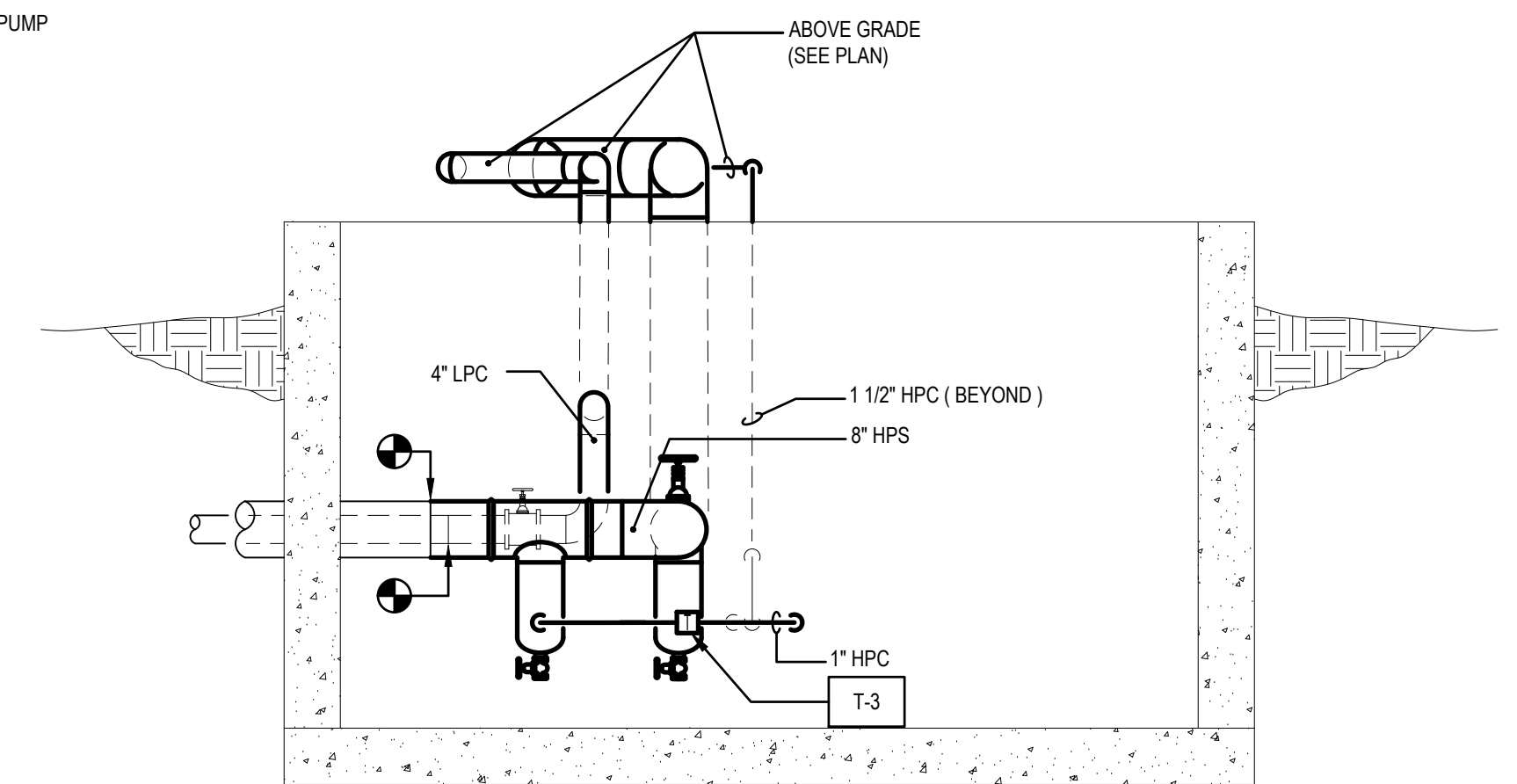
3 MANHOLE 9H PLAN  
SCALE: 1/2" = 1'-0"



3A MANHOLE 9H SECTION VIEW  
SCALE: 1/2" = 1'-0"



4 MANHOLE 19B PLAN  
SCALE: 1/2" = 1'-0"



4A MANHOLE 19B SECTION VIEW  
SCALE: 1/2" = 1'-0"

**GENERAL NOTES**

A. TO MAXIMUM EXTENT POSSIBLE, INSTALL NEW PIPING PRIOR TO DEMOLITION OF EXISTING PIPING. STEAM OUTGAS AT THE SITE SHALL BE KEPT TO A MINIMUM.

B. PIPING INSULATION NOT SHOWN FOR CLARITY.

C. PROVIDE STEAM DRIP TRAP ON EACH SIDE OF SHUTOFF VALVE IN HIGH PRESSURE STEAM LINE.


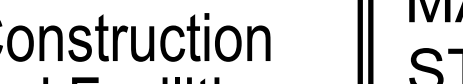
**PLAN NOTES**

1 EXISTING PIPING ABANDONED IN PLACE.

2 EXISTING MANHOLE TO BE ABANDONED.

3 PROVIDE NEW SHUTOFF VALVE.

0' 6" 1' 2' 4'  
SCALE: 1/2" = 1'-0"

			<b>SUBCONSULTANTS</b>			<b>ARCH/ENGINEER OF RECORD</b>			<b>STAMP</b>			<div>Office of Construction and Facilities Management</div> <div>VAU.S. Department of Veterans Affairs</div>			<b>Drawing Title</b>			<b>Phase</b>			<b>Project Title</b>			<b>Project Number</b>														
			<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			<b>MORABITO CONSULTANTS, INC.</b> STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377			<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.469.1325						<b>PRIME A/E:</b>  <b>VETERAN DESIGN &amp; CONSTRUCTION INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081						<b>MANHOLE PART PLANS - STEAM PIPING - NEW WORK</b>			<b>100% SUBMISSION</b>			<b>UPGRADE STEAM SYSTEM PATIENT AREAS</b>			<b>512A5-21-304</b>								
			<b>A. MORTON THOMAS AND ASSOCIATES, INC.</b> CIVIL ENGINEER (LANDSCAPE) SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545																		<b>Building Number</b> --																	
																					<b>Approved: Project Director</b>						<b>Location</b> VAMC PERRY POINT			<b>Drawing Number</b> MP201								
<b>Revisions:</b>			<b>Date:</b>																								<b>Issue Date</b> 02/02/2024			<b>Checked</b> MC/NH			<b>Drawn</b> DS					



**GENERAL NOTES**

A. TO MAXIMUM EXTENT POSSIBLE, INSTALL NEW PIPING PRIOR TO DEMOLITION OF EXISTING PIPING. STEAM OUTAGES AT THE SITE SHALL BE KEPT TO A MINIMUM.

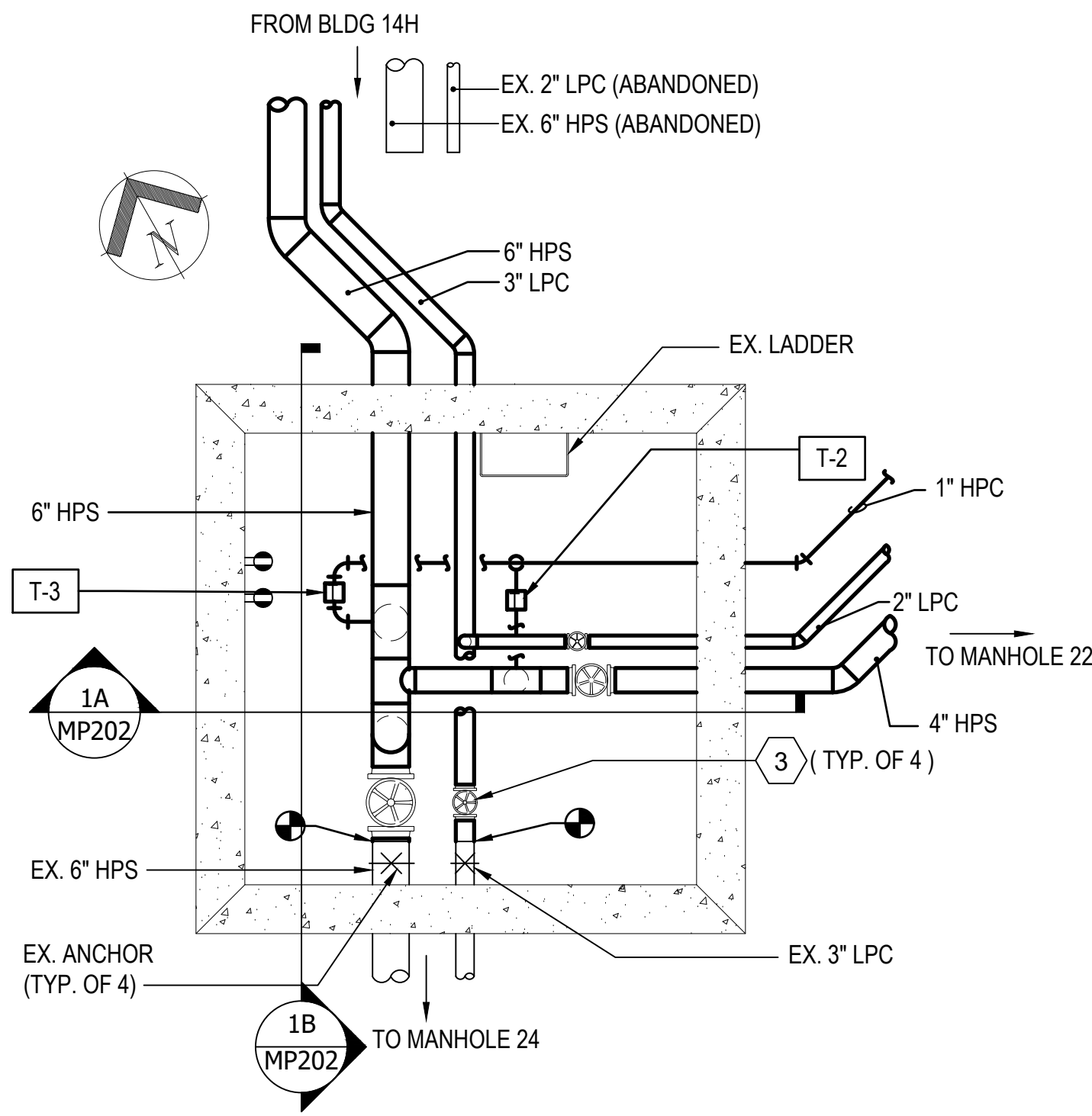
B. PIPING INSULATION NOT SHOWN FOR CLARITY.

**PLAN NOTES**

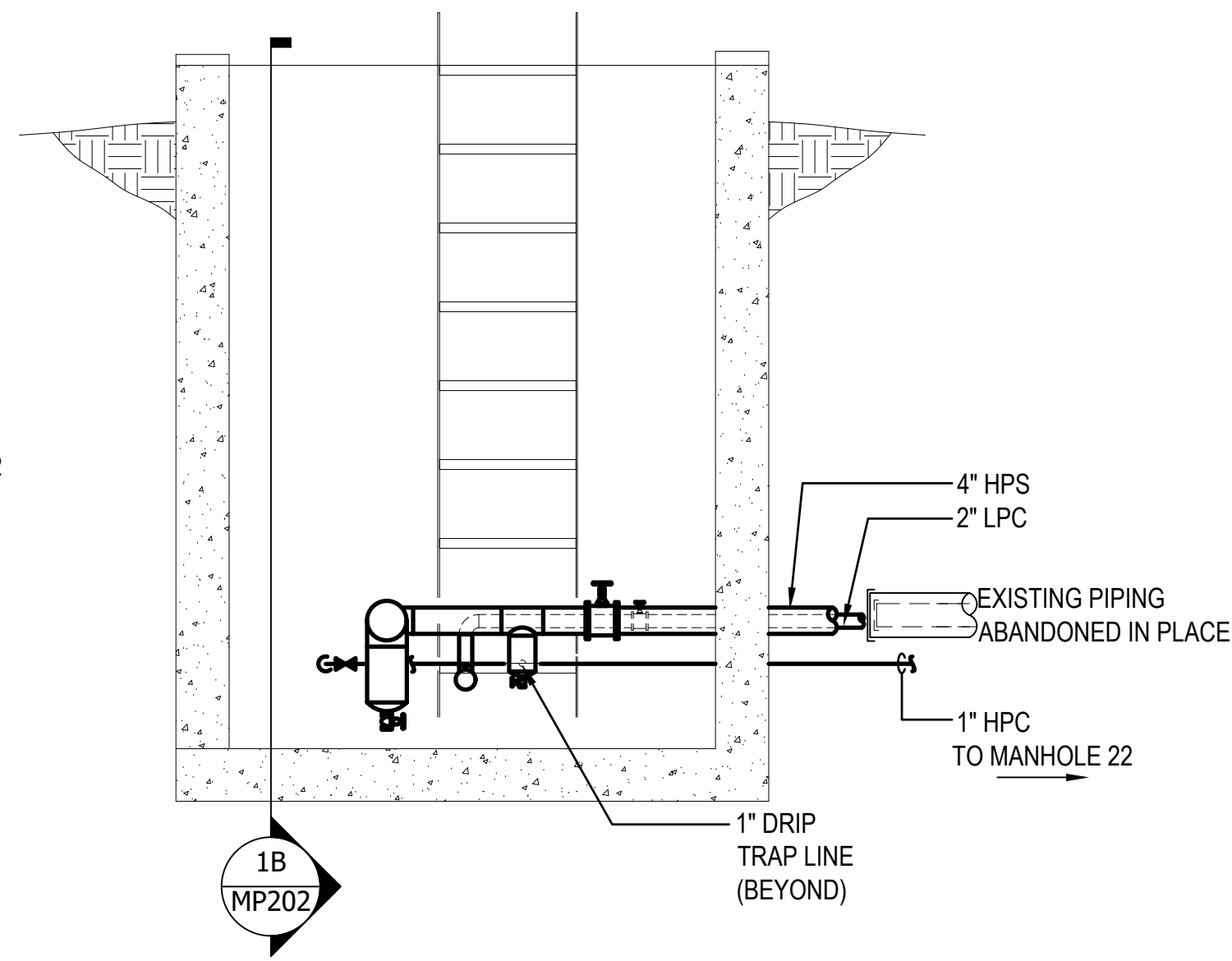
1 EXISTING PIPING ABANDONED IN PLACE.

2 MANHOLE FOUNDATION TO BE EXCAVATED.

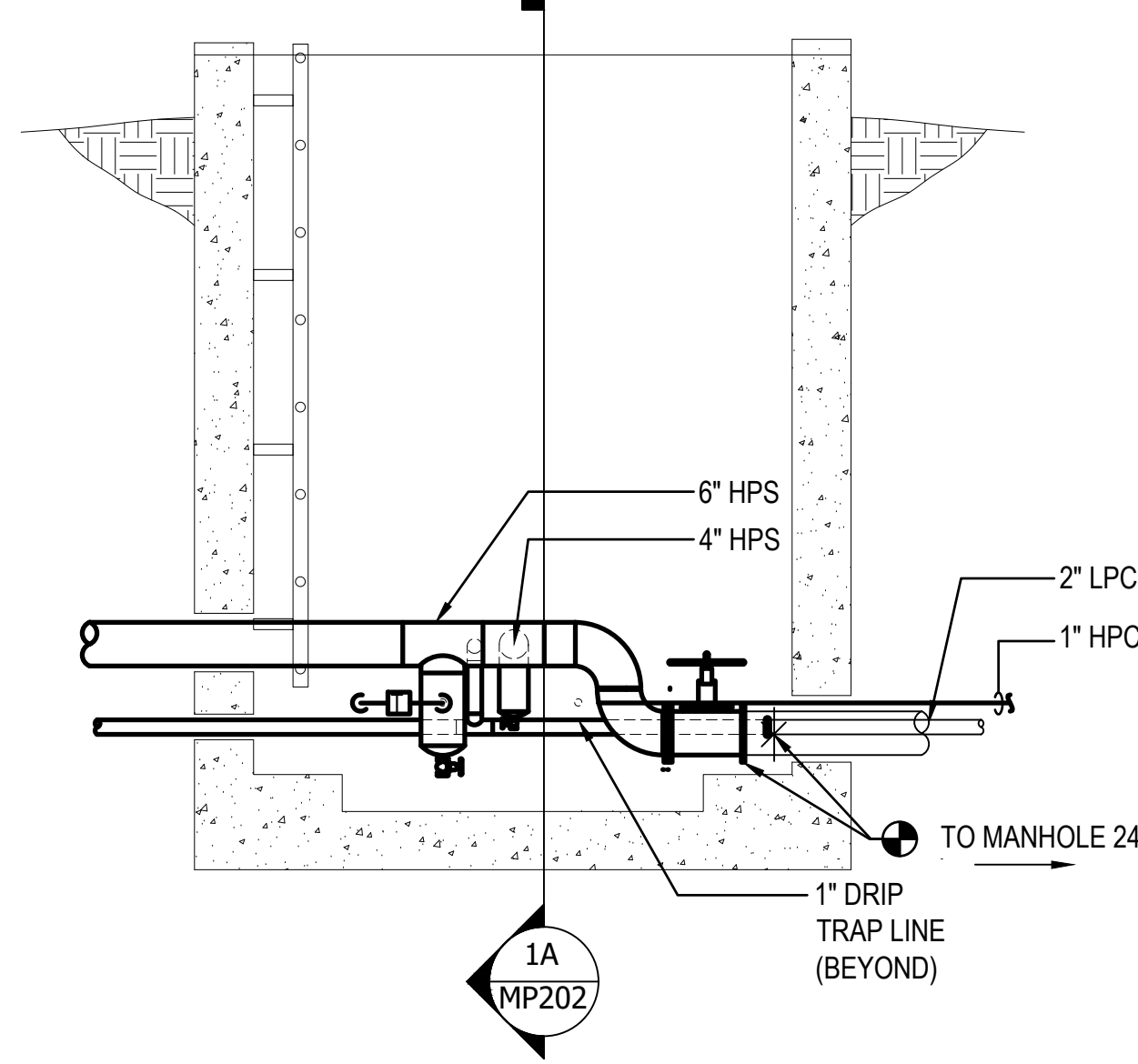
3 PROVIDE NEW SHUTOFF VALVES.



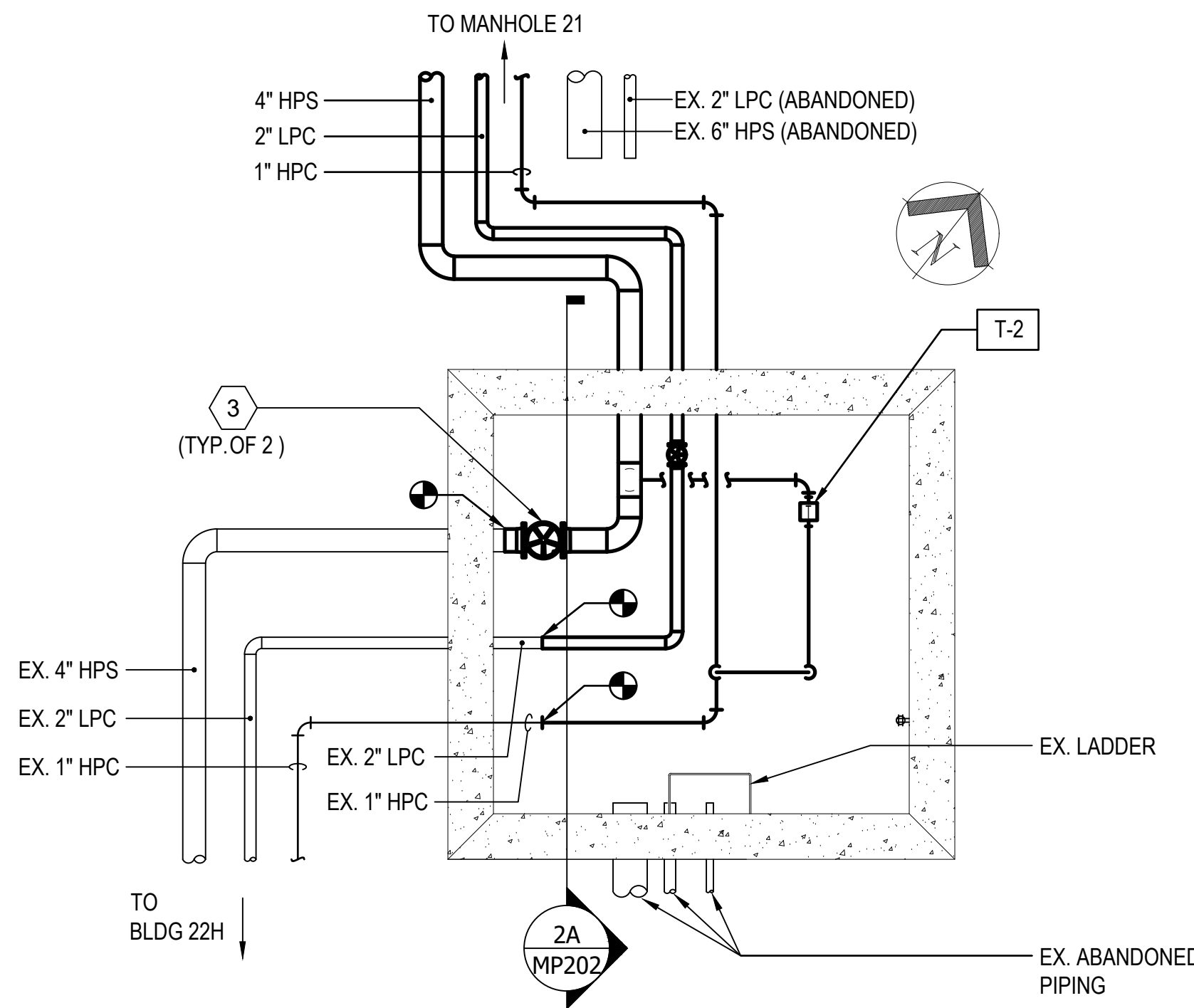
1 MANHOLE 21 PLAN  
SCALE: 1/2" = 1'-0"



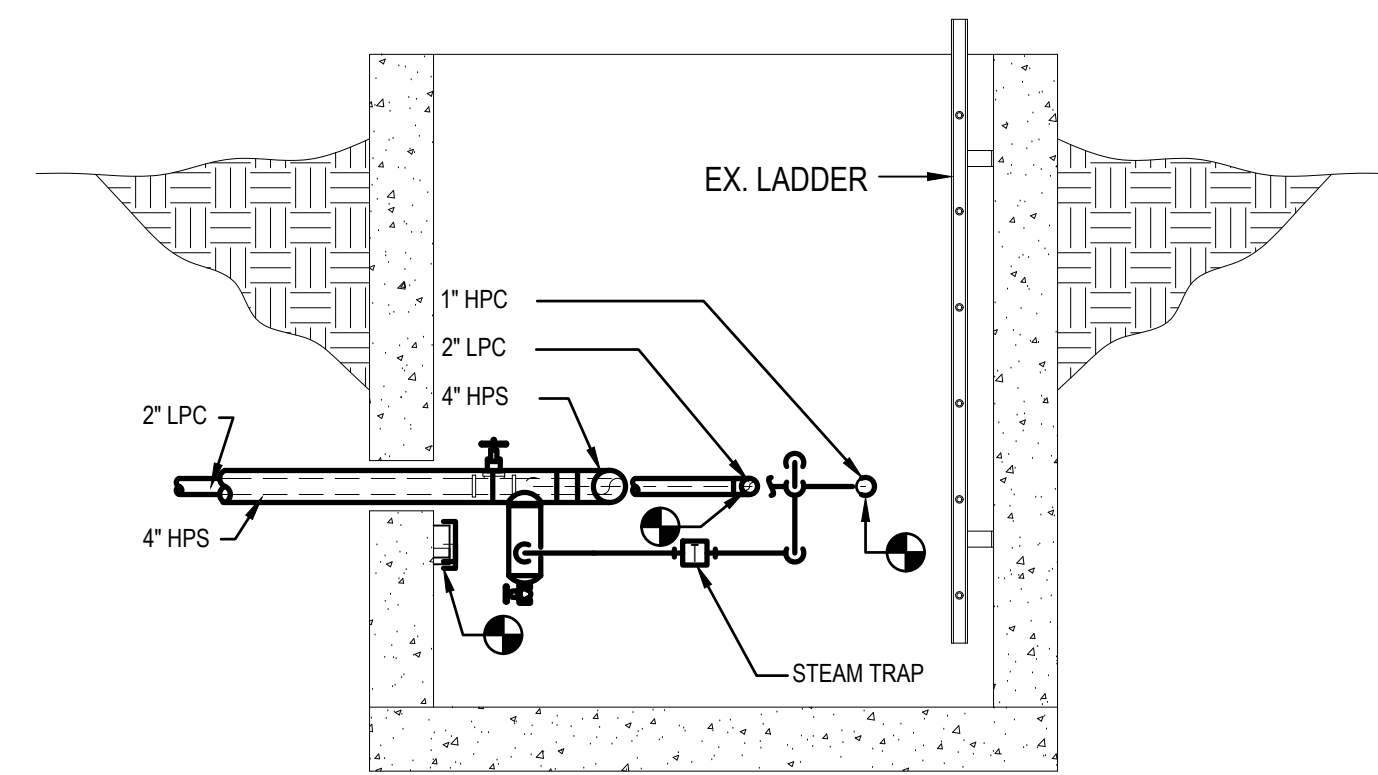
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SCALE: 1/2" = 1'-0"



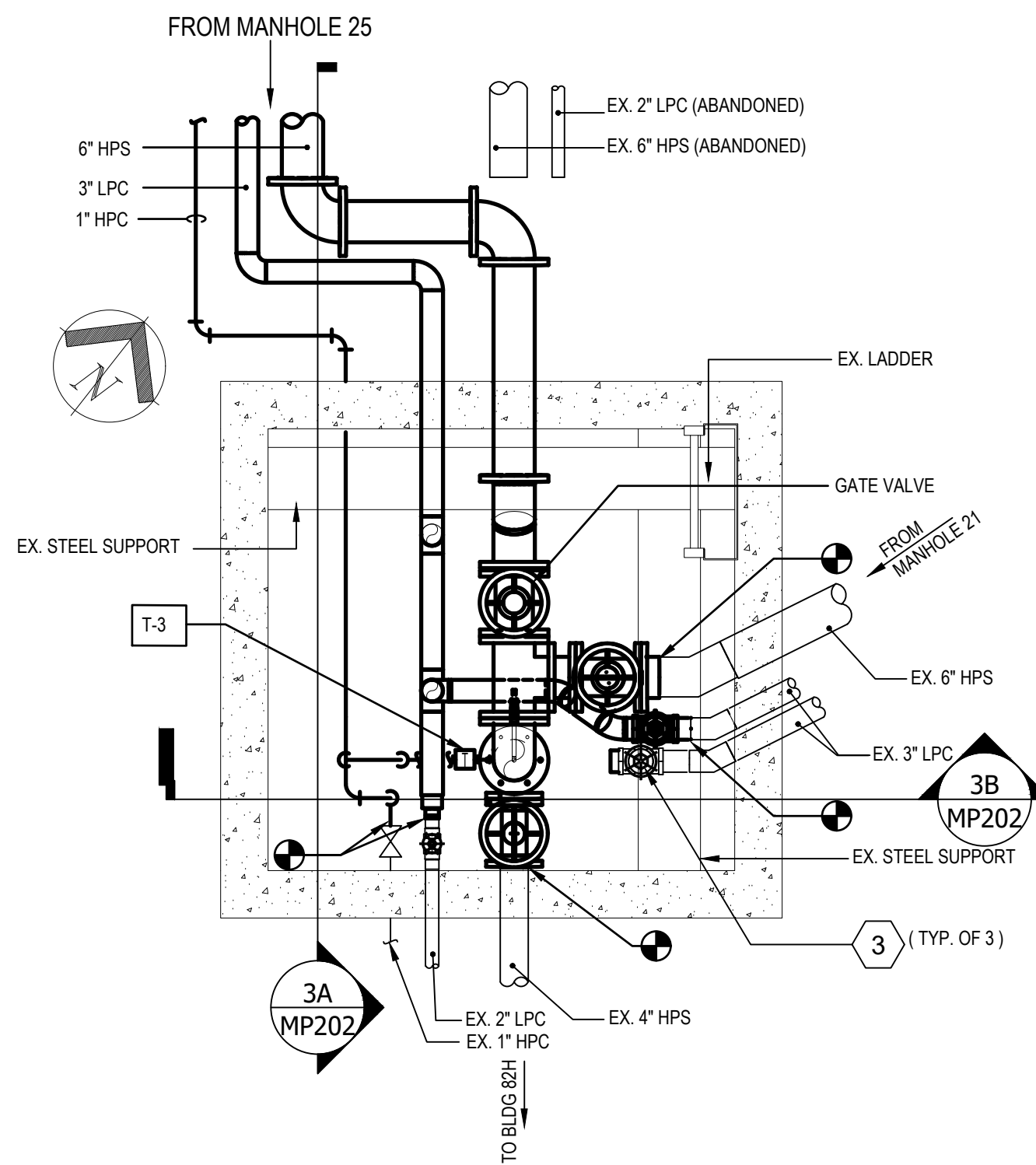
1B MANHOLE 21 EAST  
SCALE: 1/2" = 1'-0"



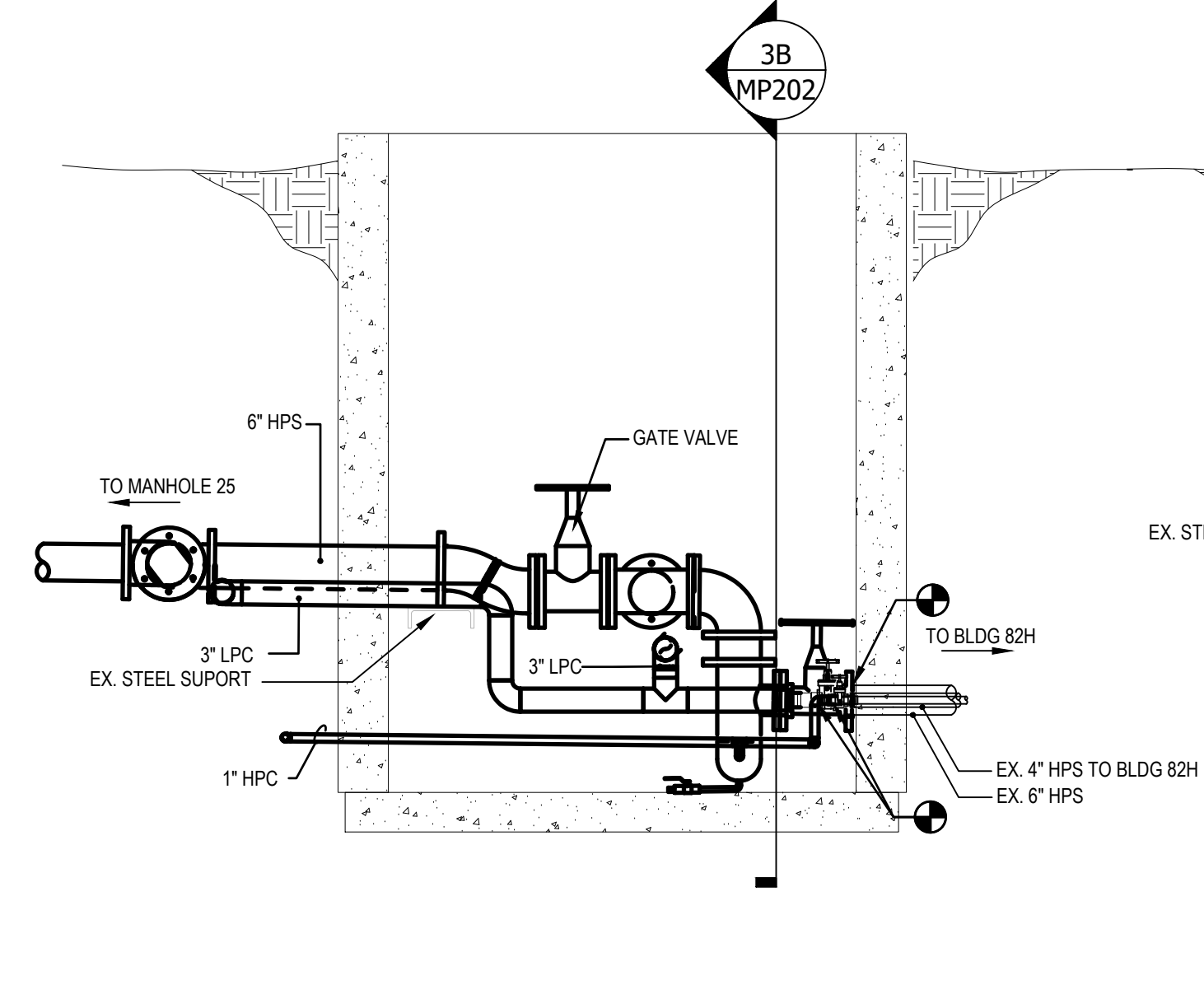
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SCALE: 1/2" = 1'-0"



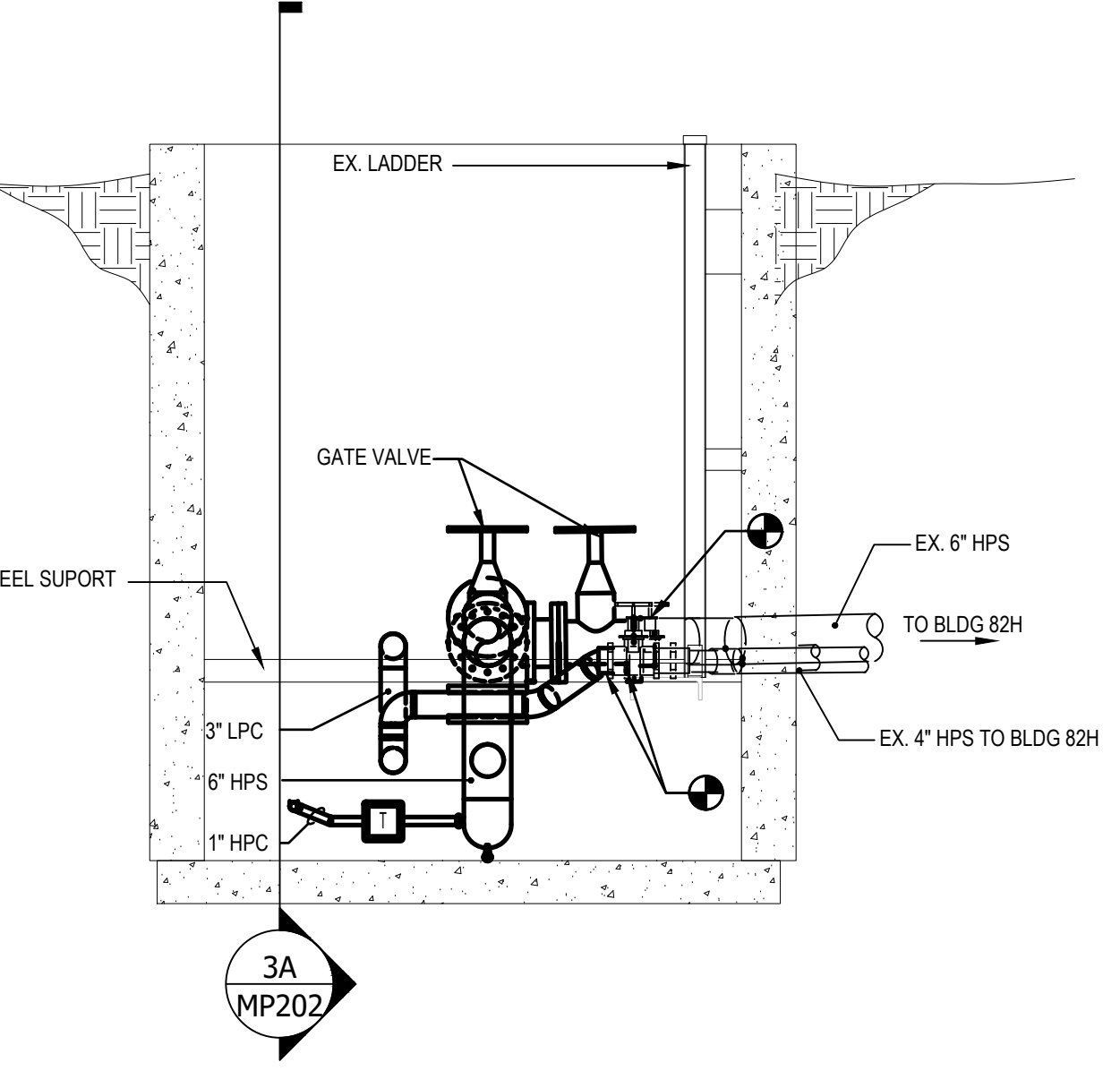
2A MANHOLE 22 SECTION VIEW  
SCALE: 1/2" = 1'-0"



3 MANHOLE 24 PLAN  
SCALE: 1/2" = 1'-0"



3A MANHOLE 24 SECTION VIEW EAST  
SCALE: 1/2" = 1'-0"

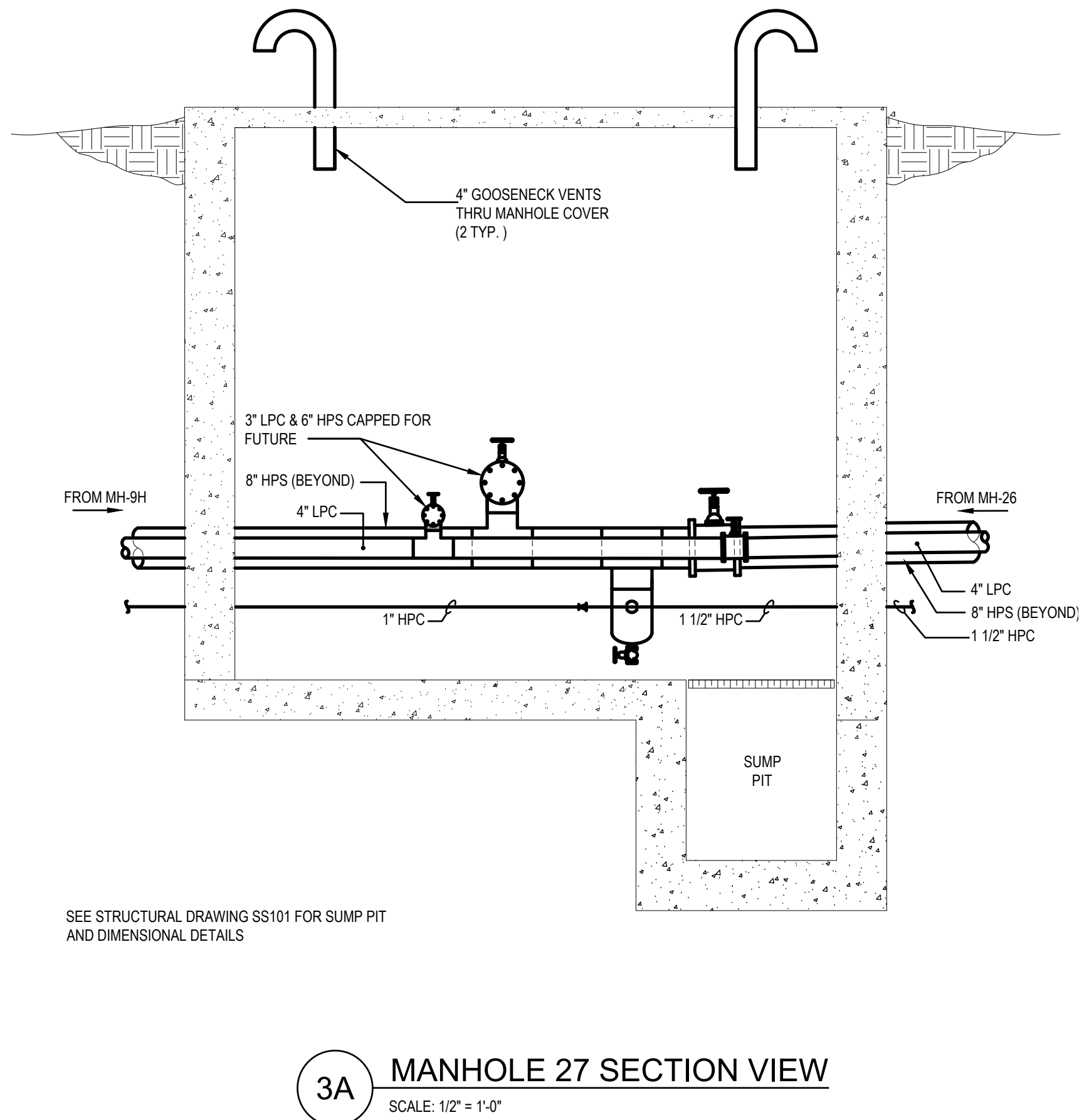
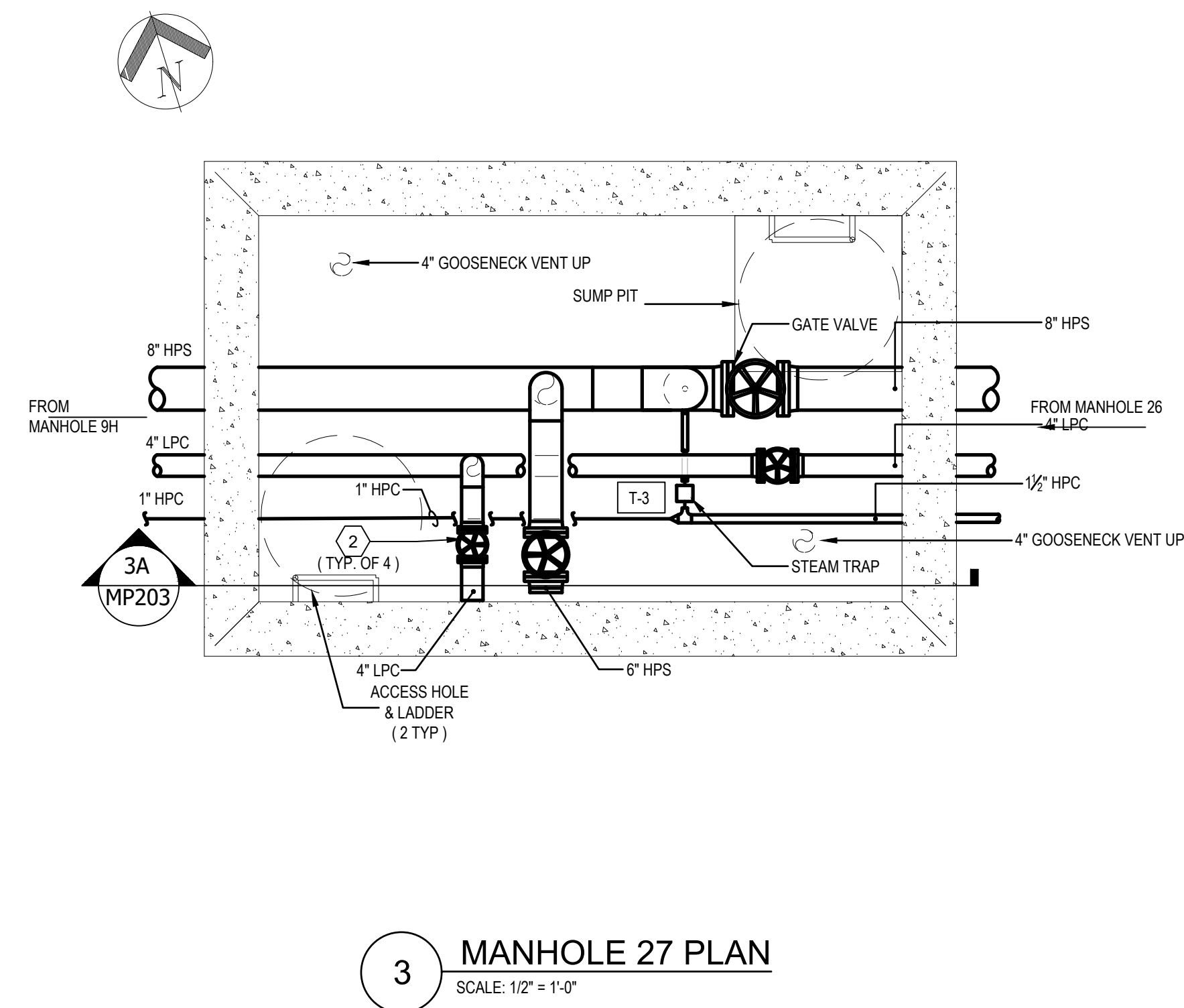
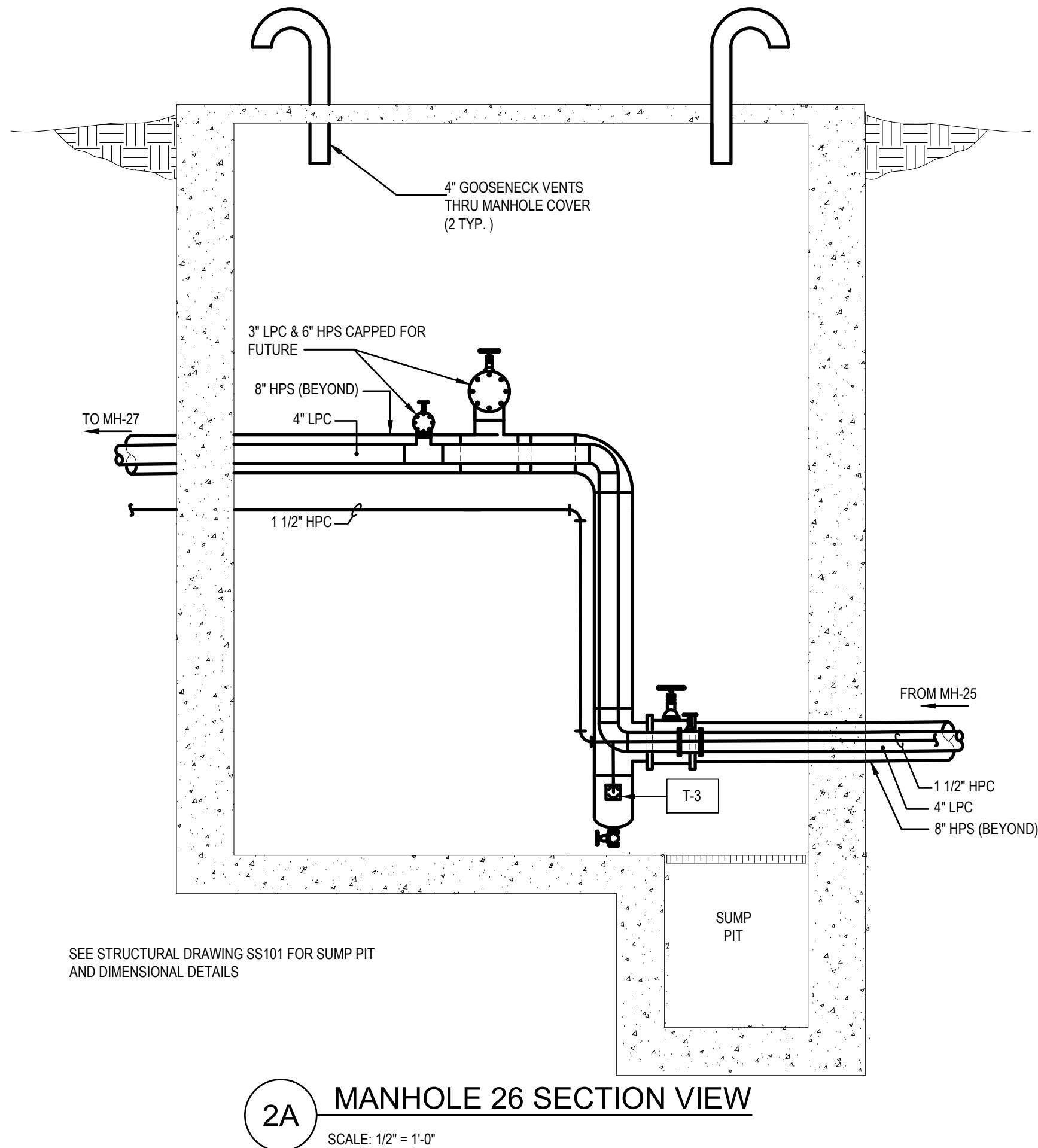
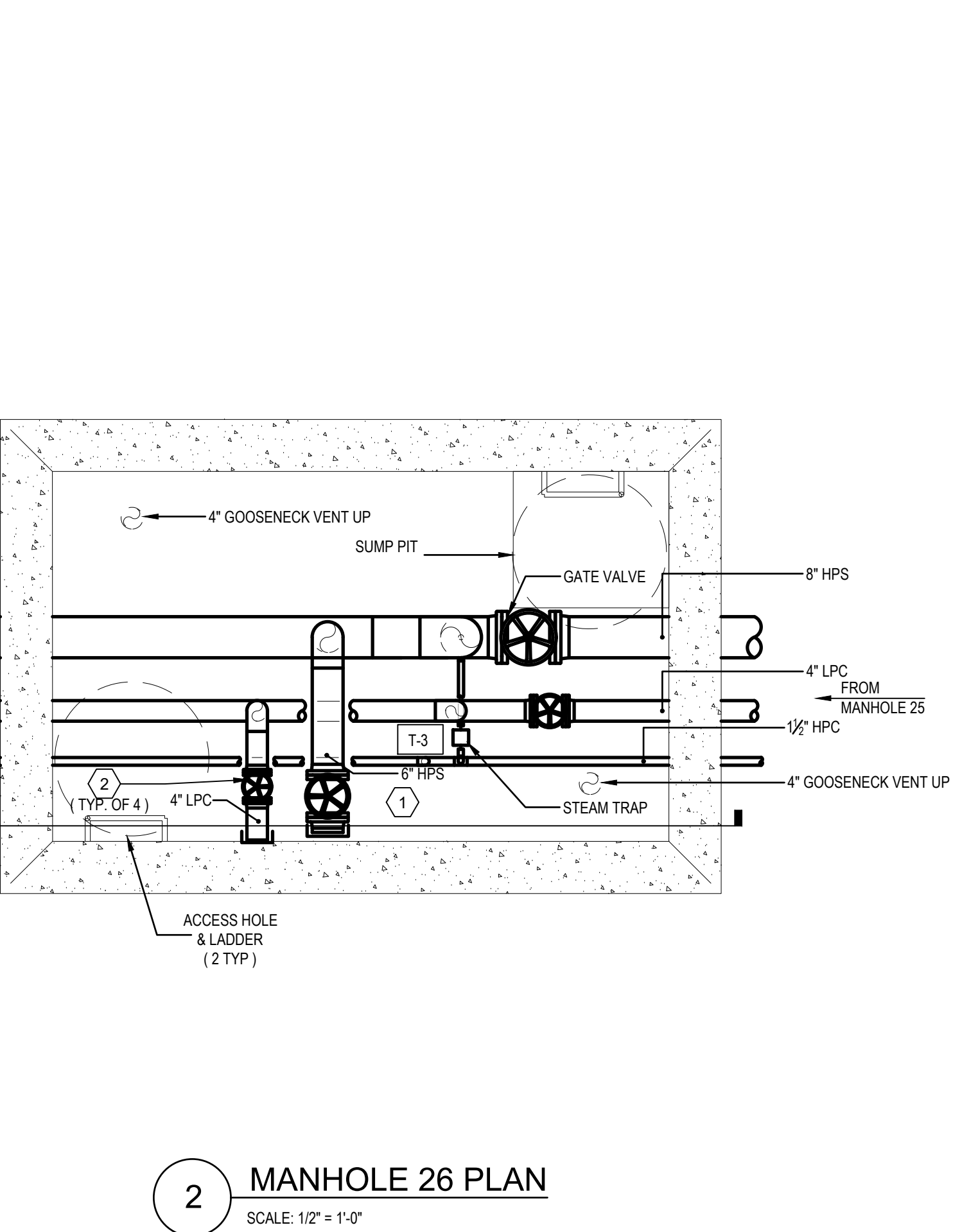
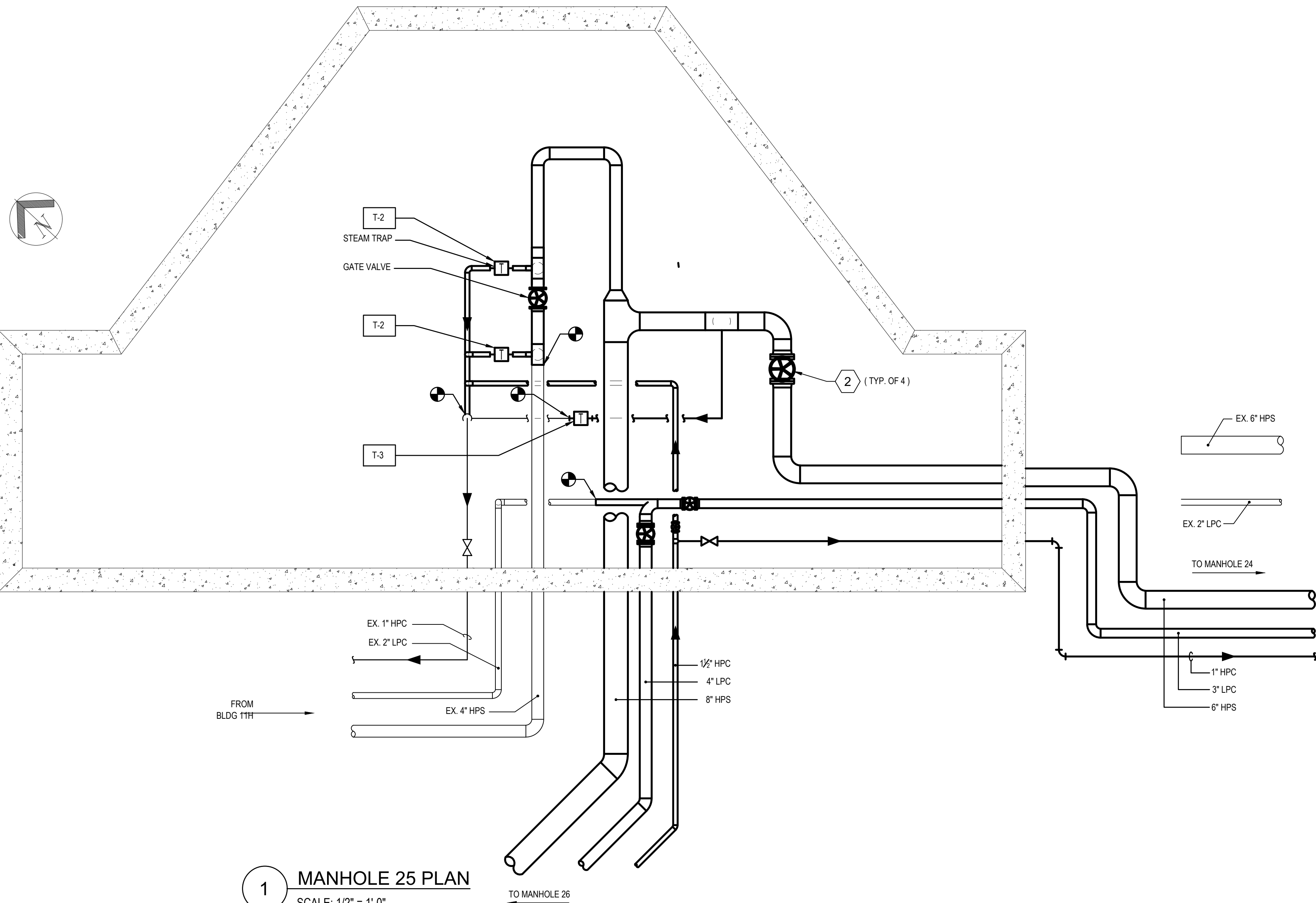


3B MANHOLE 24 SECTION VIEW NORTH  
SCALE: 1/2" = 1'-0"

0' 6" 1' 2' 4'  
SCALE: 1/2" = 1'-0"

File Path																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</
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**GENERAL NOTES**

A. TO MAXIMUM EXTENT POSSIBLE, INSTALL NEW PIPING PRIOR TO DEMOLITION OF EXISTING PIPING. STEAM OUTGAGES AT THE SITE SHALL BE KEPT TO A MINIMUM.


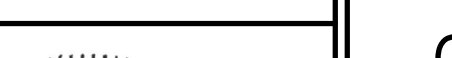
B. PIPING INSULATION NOT SHOWN FOR CLARITY.

**PLAN NOTES**

1 NEW PIPING CAPPED FOR FUTURE USE.

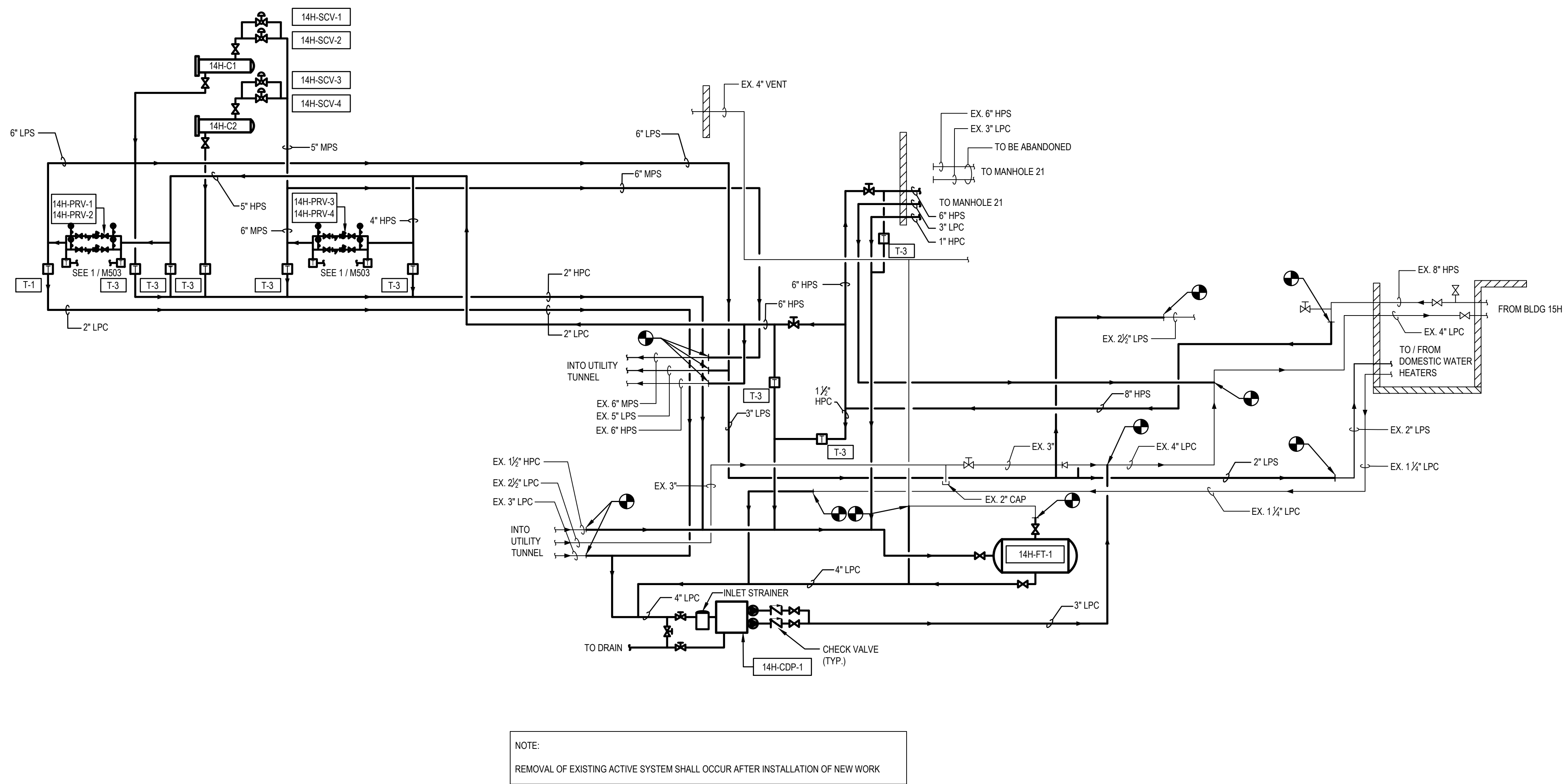
2 PROVIDE NEW SHUTOFF VALVES.

0' 6" 1' 2' 4'  
SCALE: 1/2" = 1'-0"

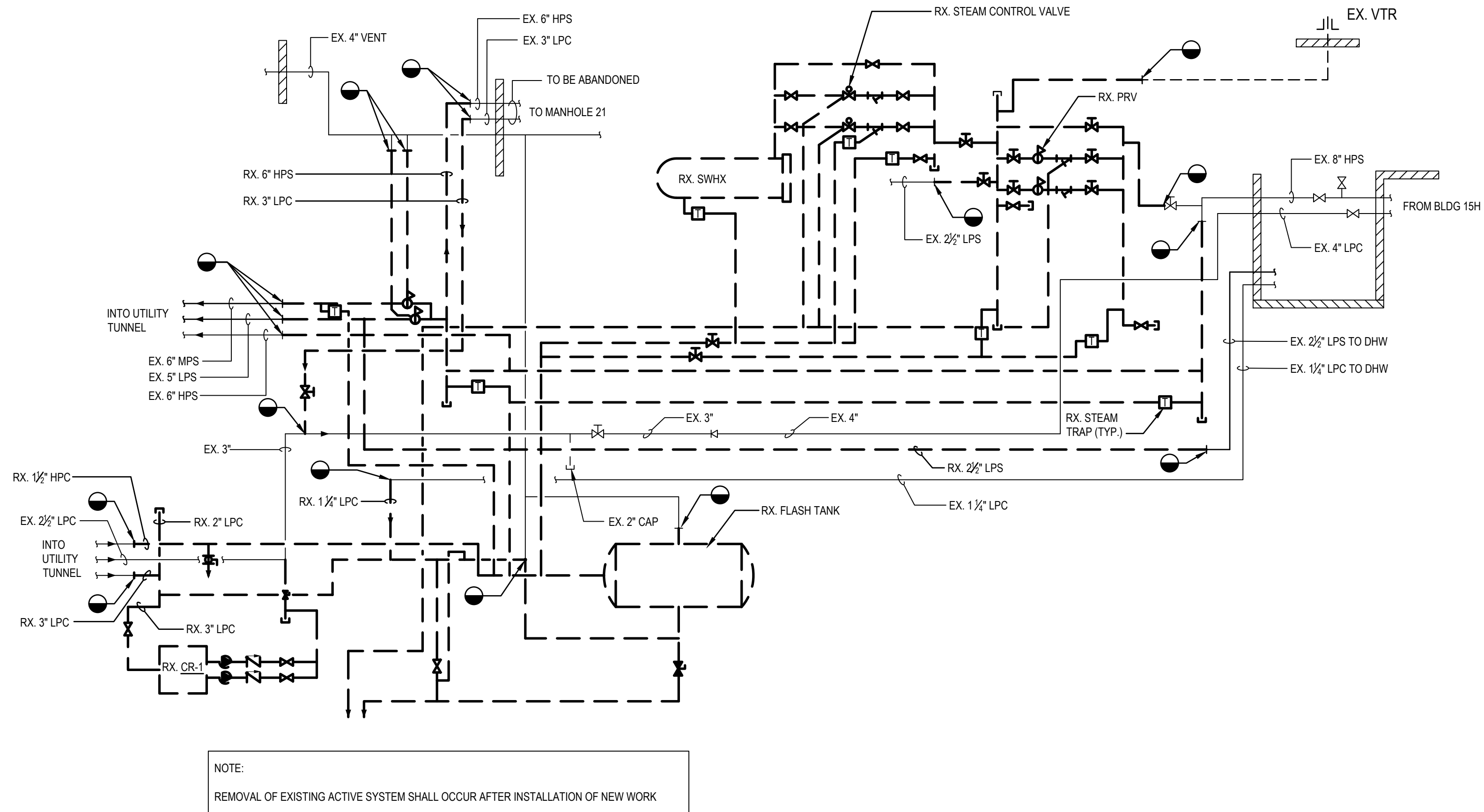
		SUBCONSULTANTS			ARCH/ENGINEER OF RECORD	STAMP	<div>Office of Construction and Facilities Management</div> <div><div>VA</div><div>U.S. Department of Veterans Affairs</div></div>	Drawing Title		Phase	Project Title			Project Number		
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS			MORABITO CONSULTANTS, INC.	APEX COMPANIES, LLC		<div>PRIME A/E:</div> <div><div>VETERAN DESIGN &amp; CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081</div></div> <div></div>	MANHOLE PART PLANS - STEAM PIPING - NEW WORK		100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS			512A5-21-304	
		8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325				Building Number							
		A. MORTON THOMAS AND ASSOCIATES, INC.									--					
		CIVIL ENGINEER (LANDSCAPE) SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545							Approved: Project Director			Location			Drawing Number	
Revisions:		Date:							-		VAMC PERRY POINT			MP203		
											Issue Date	Checked	Drawn			
											02/02/2024	MC/NH	DS			



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1 STEAM AND CONDENSATE PIPING SCHEMATIC - NEW WORK  
NO SCALE



2 STEAM AND CONDENSATE PIPING SCHEMATIC - DEMO  
NO SCALE

File Path

VA FORM 08 - 6231

SUBCONSULTANTS

**DELTA ENGINEERS, ARCHITECTS & SURVEYORS**  
ARCHITECTURAL SERVICES  
8401 CONNECTICUT AVE SUITE 350  
CHEVY CHASE, MARYLAND 20815  
301.718.0080  
**A. MORTON THOMAS AND ASSOCIATES, INC.**  
CIVIL ENGINEER, LANDSCAPE/SURVEY  
700 KING FARM BOULEVARD, 3RD FLOOR  
ROCKVILLE, MARYLAND 20850  
301.881.2545

**MORABITO CONSULTANTS, INC.**  
STRUCTURAL ENGINEERING  
952 RIDGE BROOK ROAD, SUITE 1700  
SPARKS, MARYLAND 21152  
410.467.2377

**APEX COMPANIES, LLC**  
INDUSTRIAL HYGIENIST  
15850 CRABBS BRANCH WAY, STE 200  
ROCKVILLE, MARYLAND 20855  
240.499.7325

ARCH./ENGINEER OF RECORD

PRIME A/E:

**VETERAN DESIGN & CONSTRUCTION INC.**  
5523 RESEARCH PARK DRIVE SUITE 110  
BALTIMORE, MARYLAND 21228  
443.543.5081

STAMP



Office of  
Construction  
and Facilities  
Management



U.S. Department  
of Veterans  
Affairs

Drawing Title  
**BUILDING 14H PIPING SCHEMATICS  
- NEW WORK AND DEMO**

Approved: Project Director

Phase  
100% SUBMISSION

-

Project Title  
**UPGRADE STEAM SYSTEM  
PATIENT AREAS**

Location  
**VAMC PERRY POINT**

Issue Date  
02/02/2024

Checked  
MC/NH

Drawn  
MB

Project Number  
**512A5-21-304**

Building Number  
**14H**

Drawing Number  
**M401**



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GENERAL NOTES

CONTROLS

1.

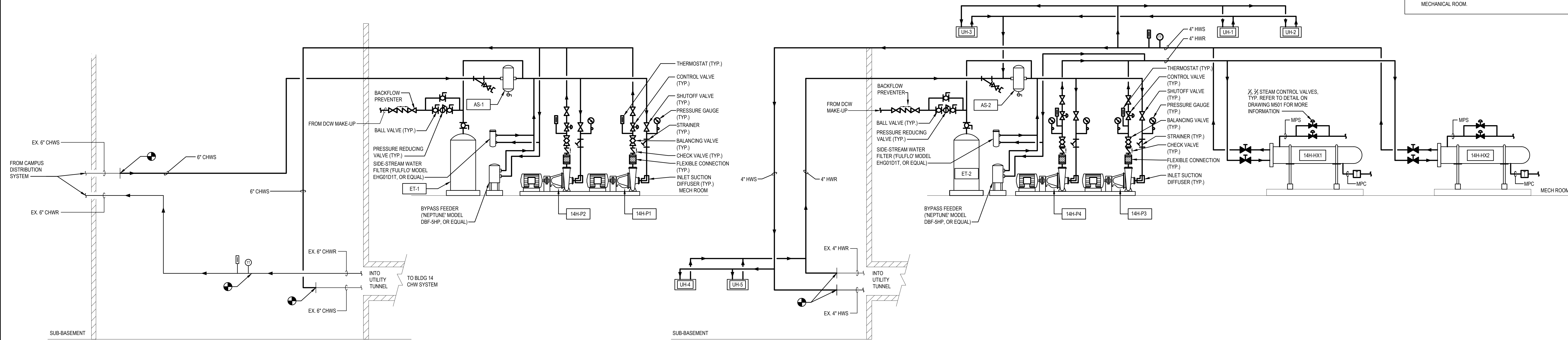
INTEGRATE NEW EQUIPMENT INTO EXISTING ANDOVER CONTINUUM DDC SYSTEM.

2.

EXISTING CONTROL DEVICES SUCH AS DPT FOR HEATING HOT WATER SYSTEM, OUTSIDE OF THE MECHANICAL ROOM SHALL BE RE-USED. NOTIFY VAMC IF EXISTING DEVICES ARE IN NEED OF REPLACEMENT.

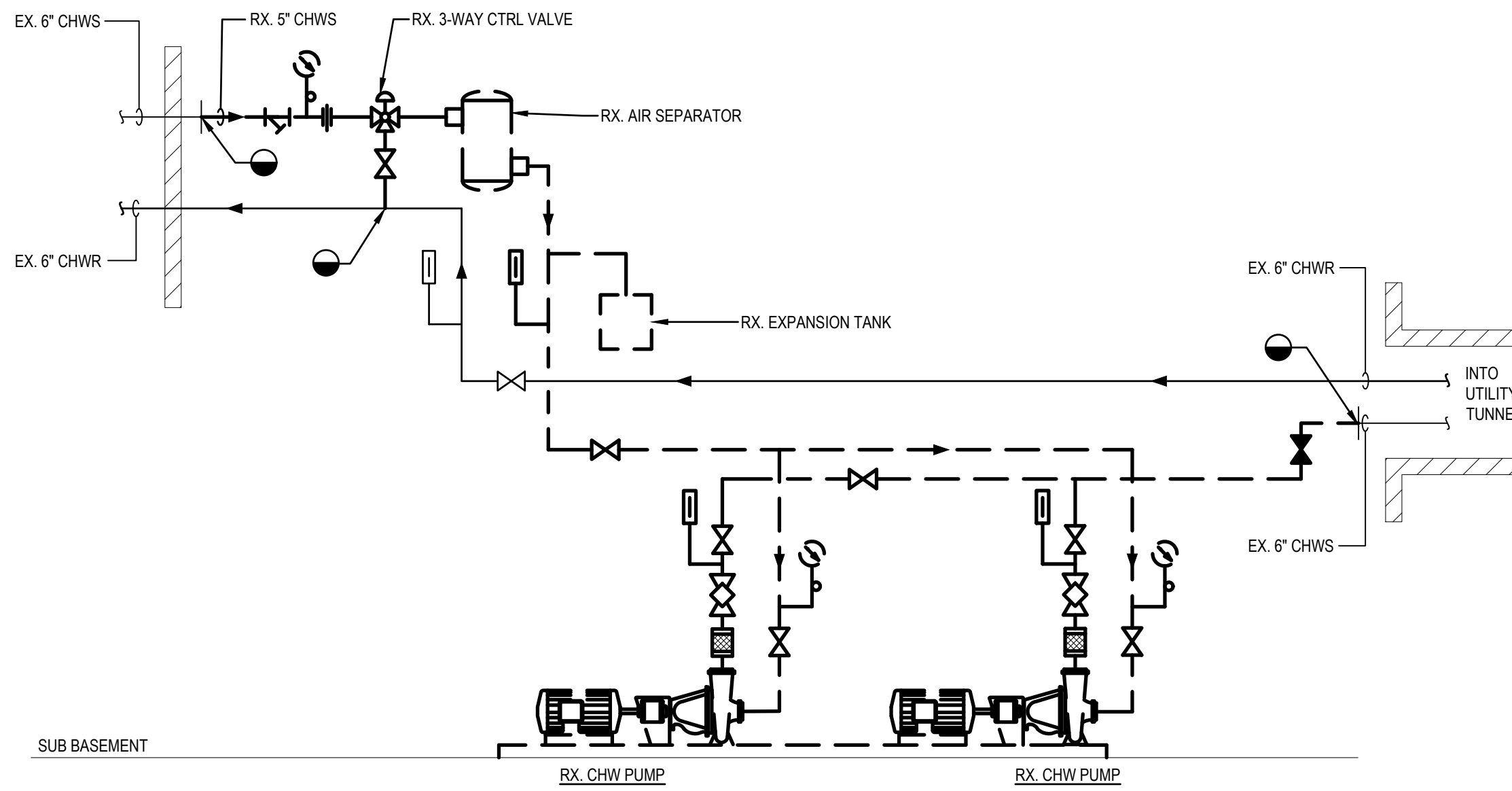
3.

PROVIDE NEW CHILLED WATER AND HEATING WATER SYSTEM CONTROLLERS IN MECHANICAL ROOM.



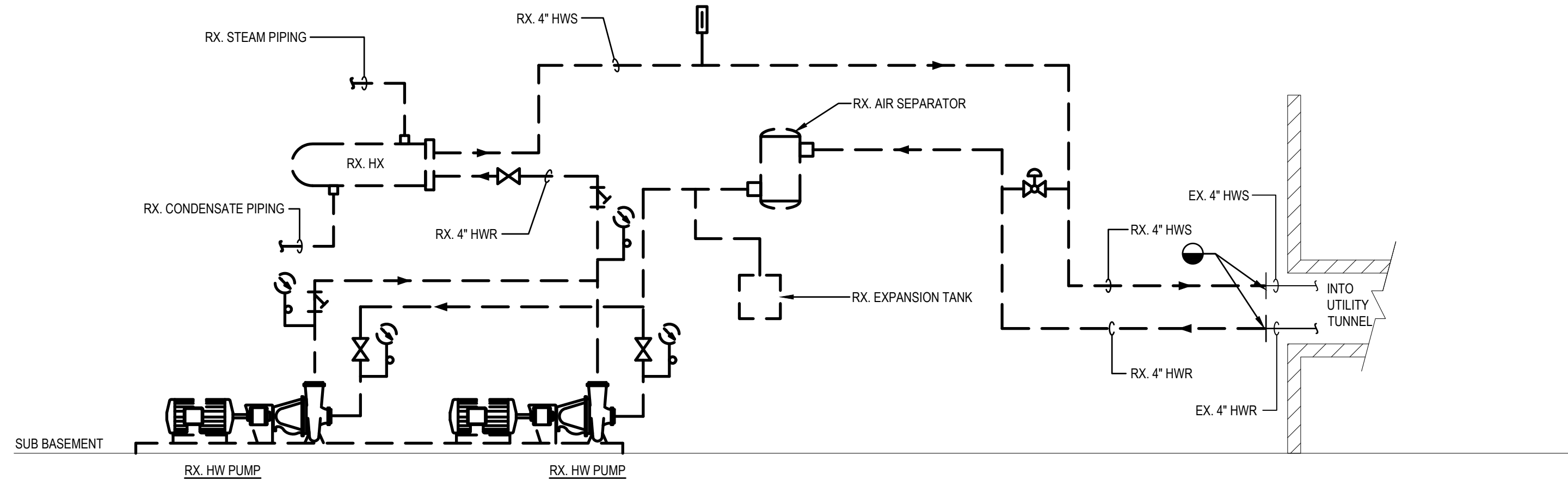
1 CHILLED WATER PIPING SCHEMATIC - NEW WORK  
NOT TO SCALE

3 HEATING WATER PIPING SCHEMATIC - NEW WORK  
NO SCALE



NOTES:  
REMOVAL OF EXISTING ACTIVE SYSTEM SHALL OCCUR AFTER INSTALLATION OF NEW WORK

2 CHILLED WATER PIPING SCHEMATIC - DEMOLITION  
NO SCALE



NOTES:  
REMOVAL OF EXISTING ACTIVE SYSTEM SHALL OCCUR AFTER INSTALLATION OF NEW WORK

4 HEATING WATER PIPING SCHEMATIC - DEMOLITION  
NO SCALE

SUBCONSULTANTS		ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management		Drawing Title	Phase	Project Title	Project Number
DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 6401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080 A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE/SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		PRIME A/E: VETERAN DESIGN & CONSTRUCTION, INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		VA U.S. Department of Veterans Affairs		BUILDING 14H WATER PIPING SCHEMATICS - NEW WORK AND DEMO	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS	512A5-21-304
Revisions:		Date:				Approved: Project Director	-	Location	Drawing Number
								VAMC PERRY POINT	M402
								Issue Date	Checked
								02/02/2024	MC/NH
								Drawn	MB



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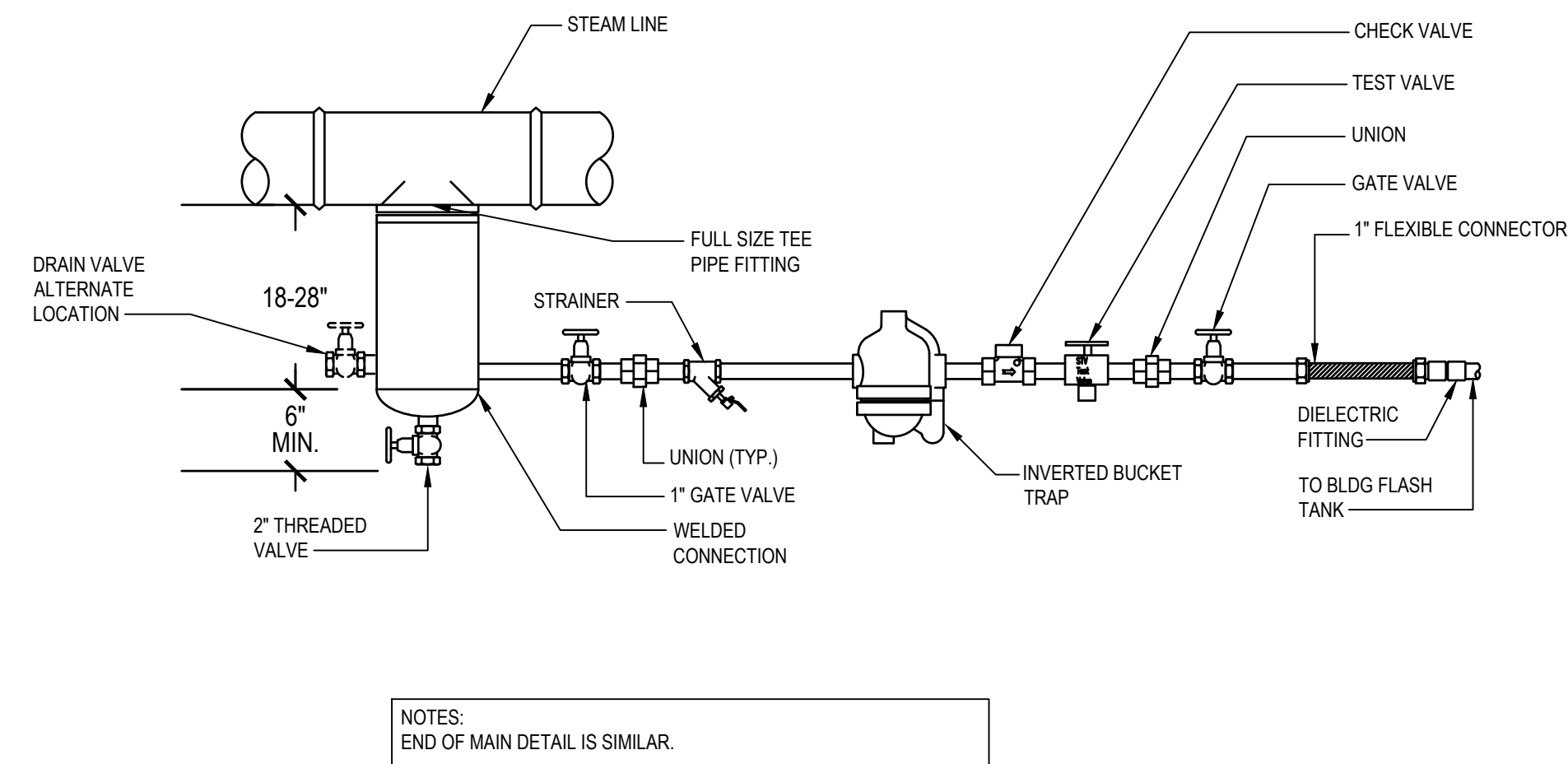
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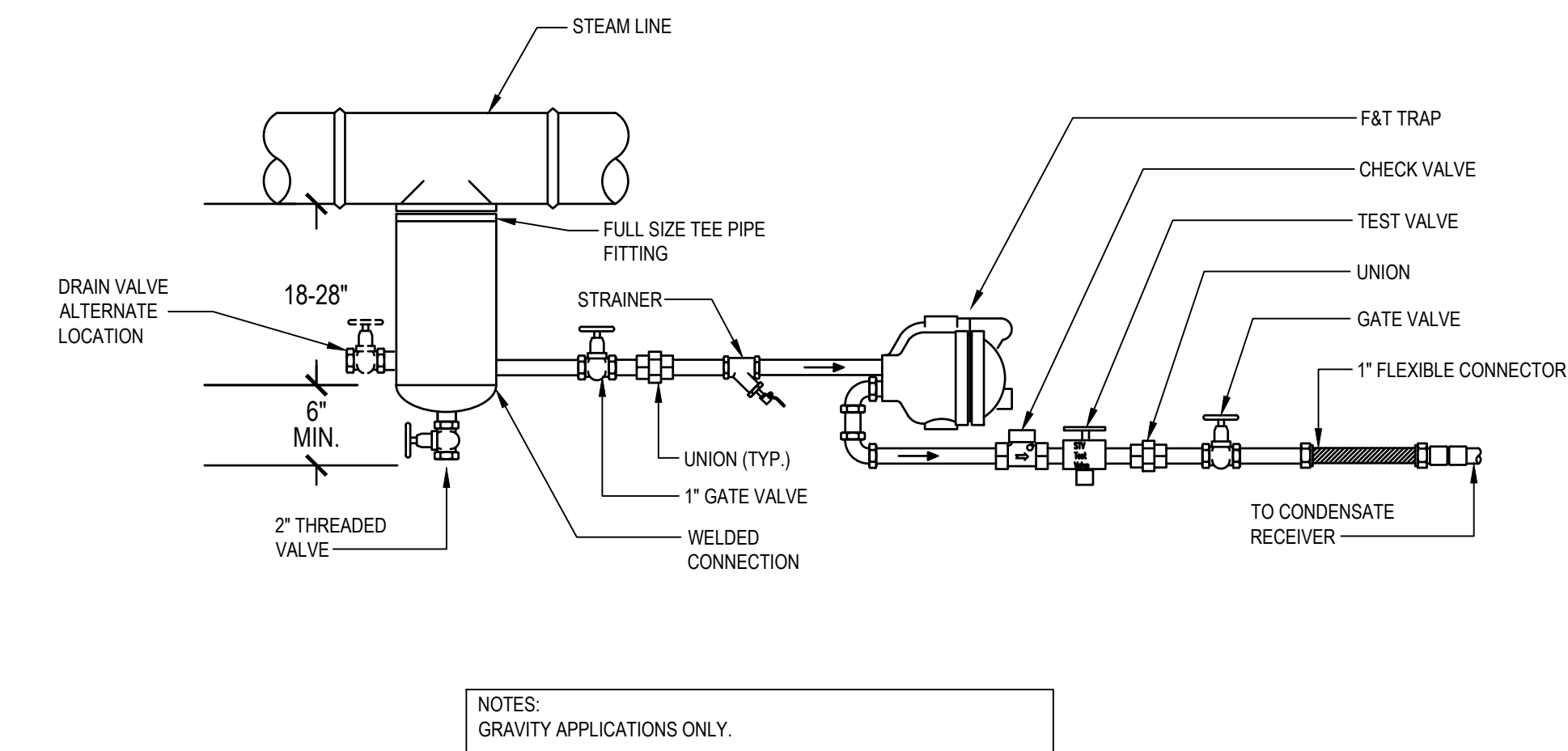
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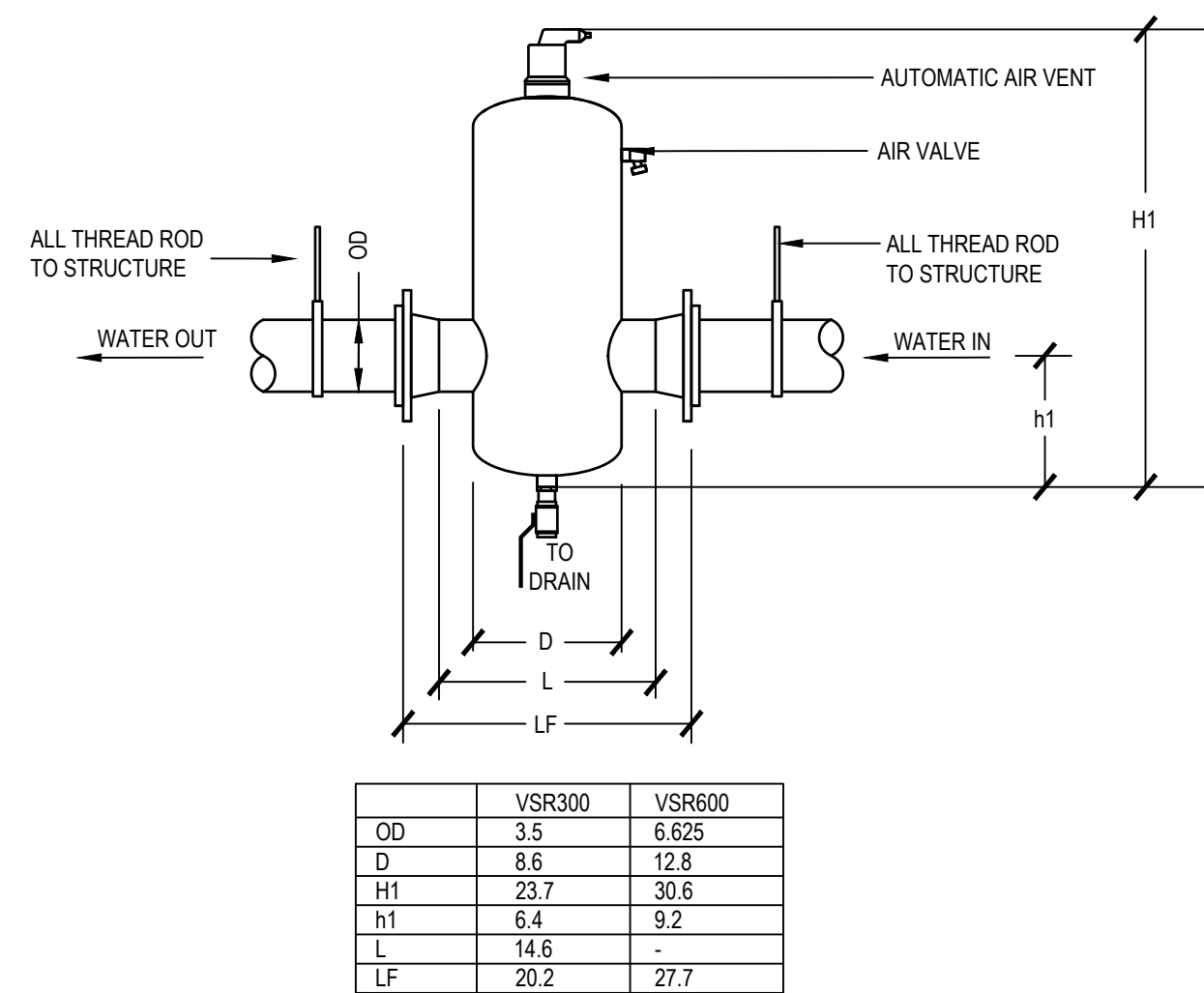
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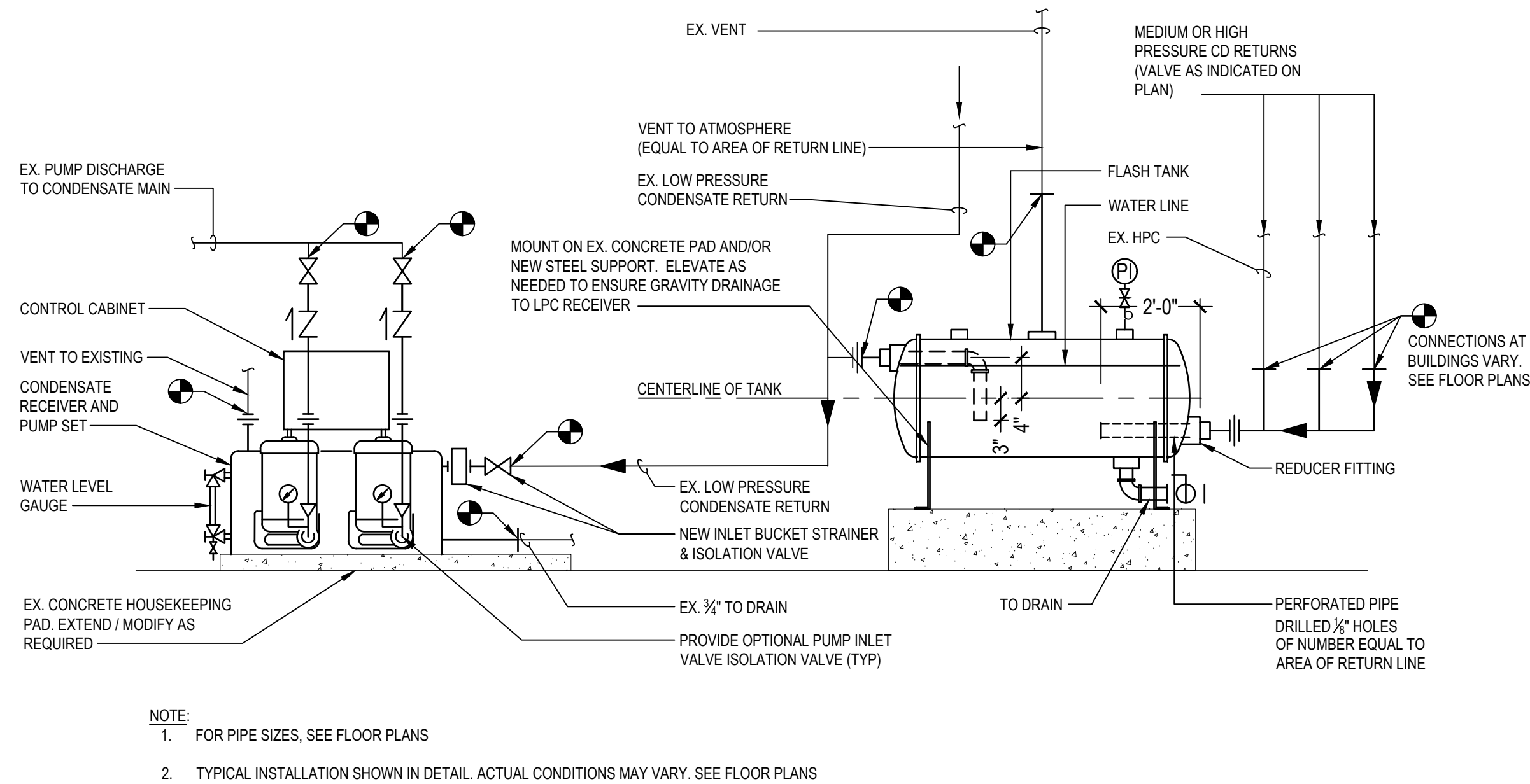
1 HPS & MPS STEAM TRAP ASSEMBLY - IN MANHOLES & BUILDINGS  
NO SCALE



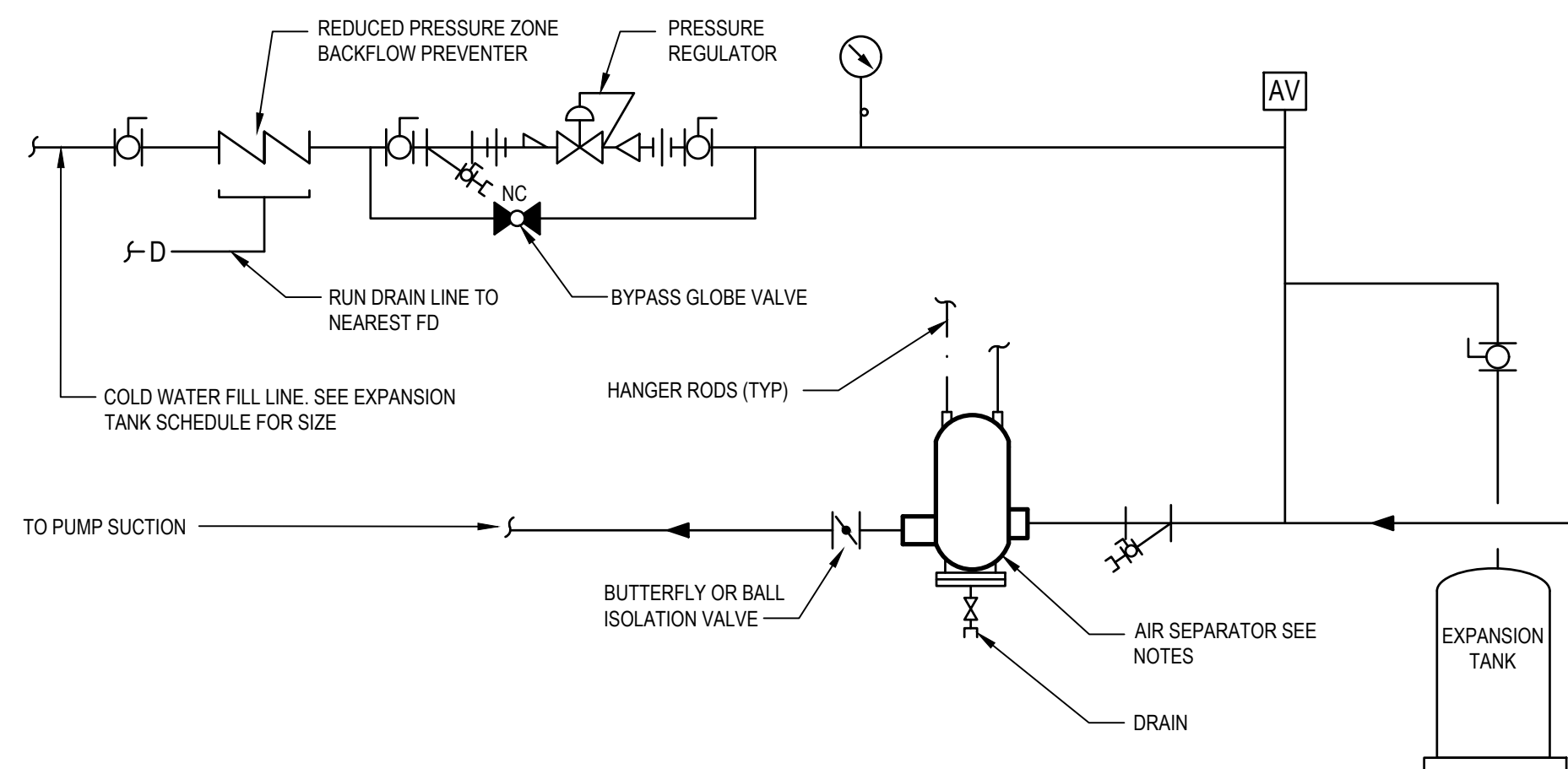
2 LPS STEAM TRAP ASSEMBLY - IN BUILDINGS  
NO SCALE



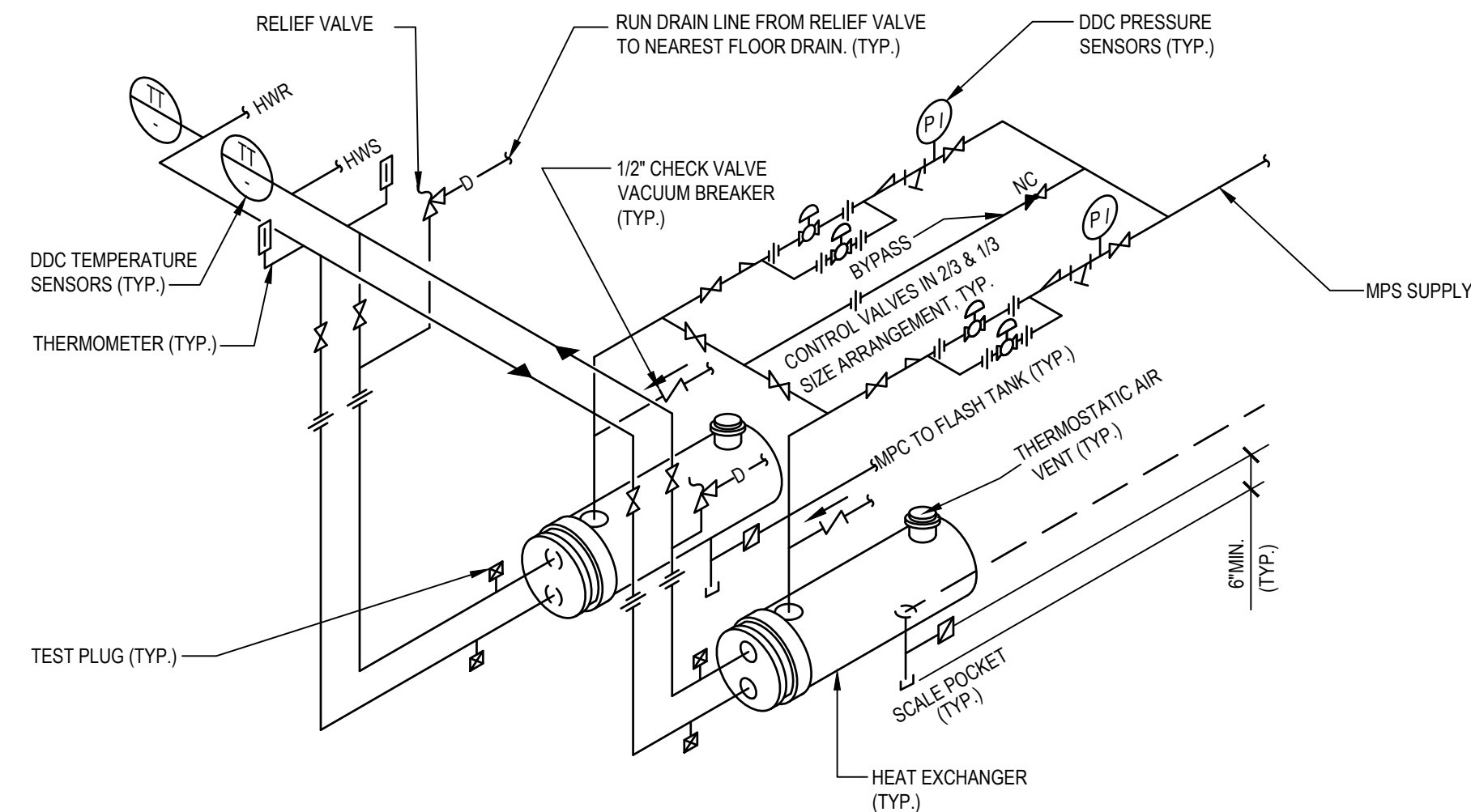
3 SPIROTHERM AIR SEPERATOR DETAIL  
NO SCALE



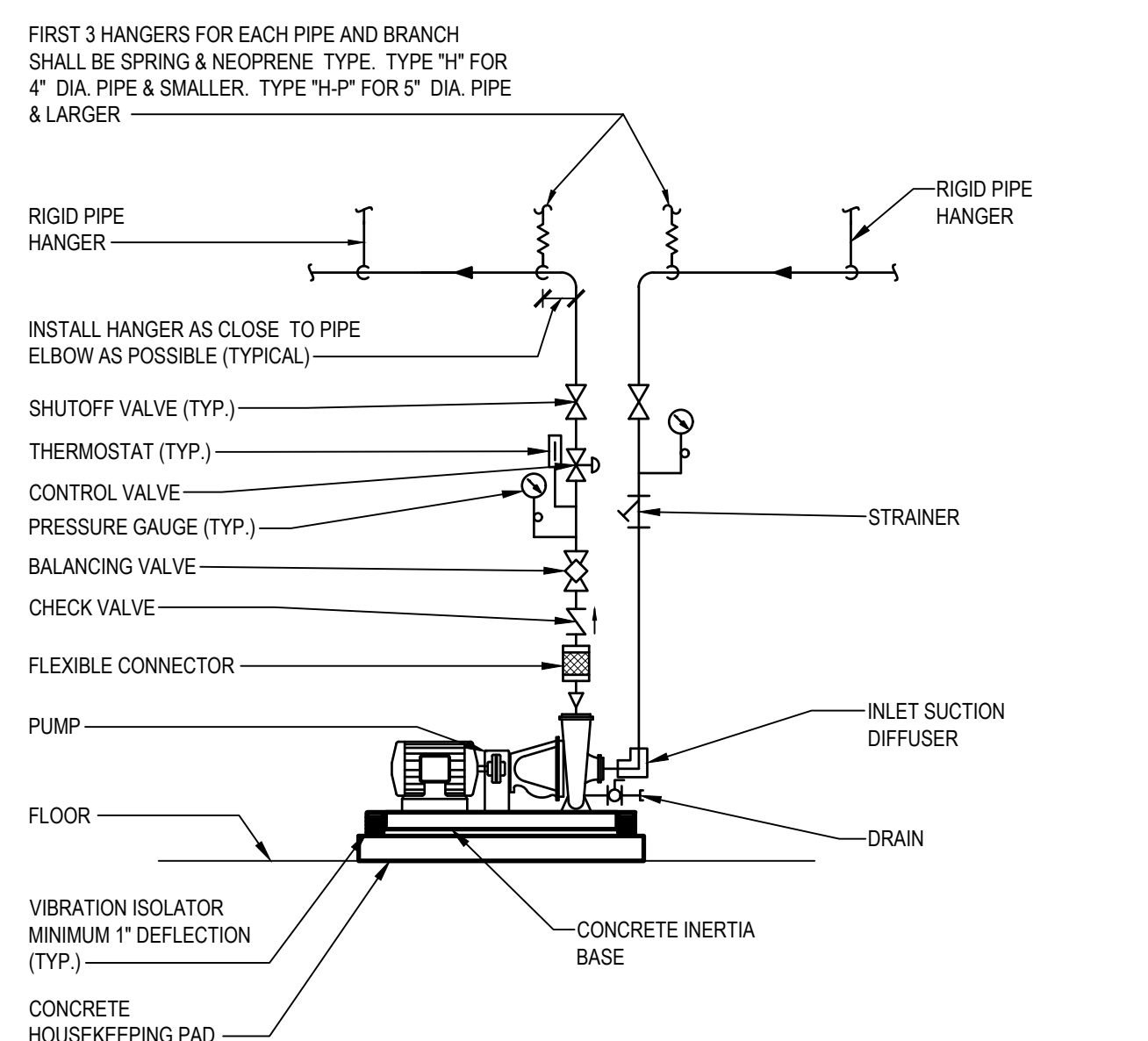
4 CONDENSATE RECEIVER WITH FLASH TANK CONNECTION DETAIL  
NO SCALE



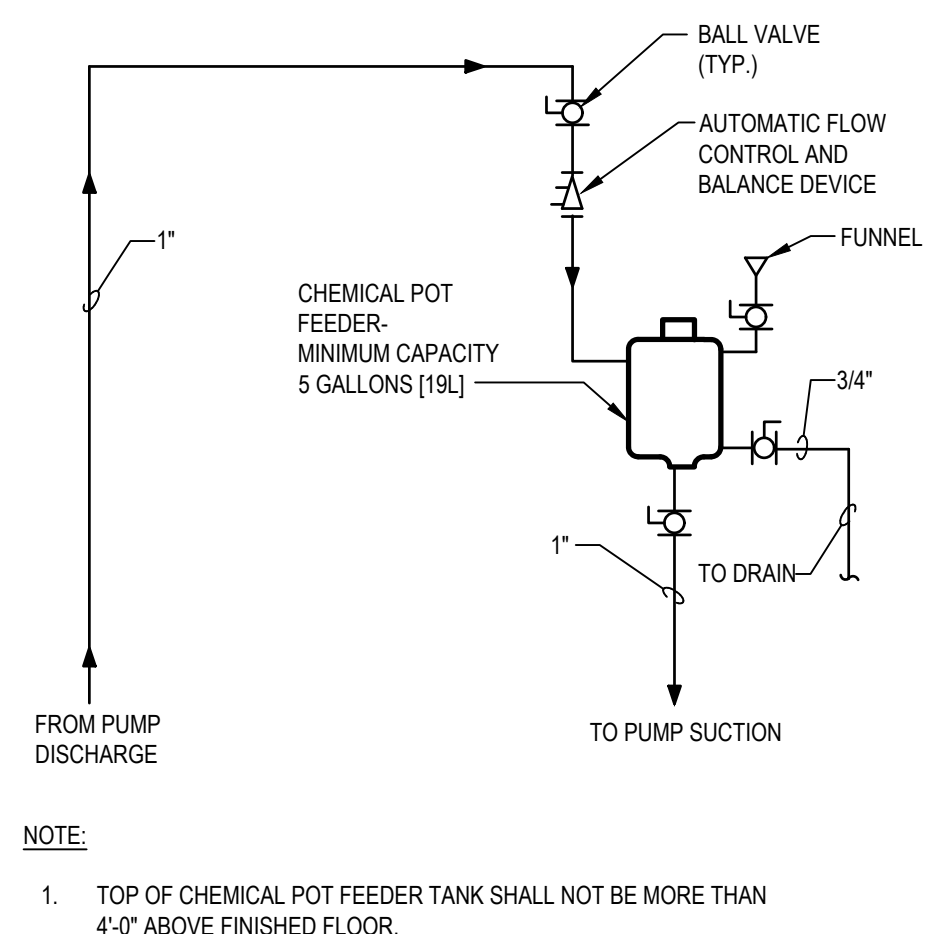
5 EXPANSION TANK - PIPING CONNECTIONS  
NO SCALE



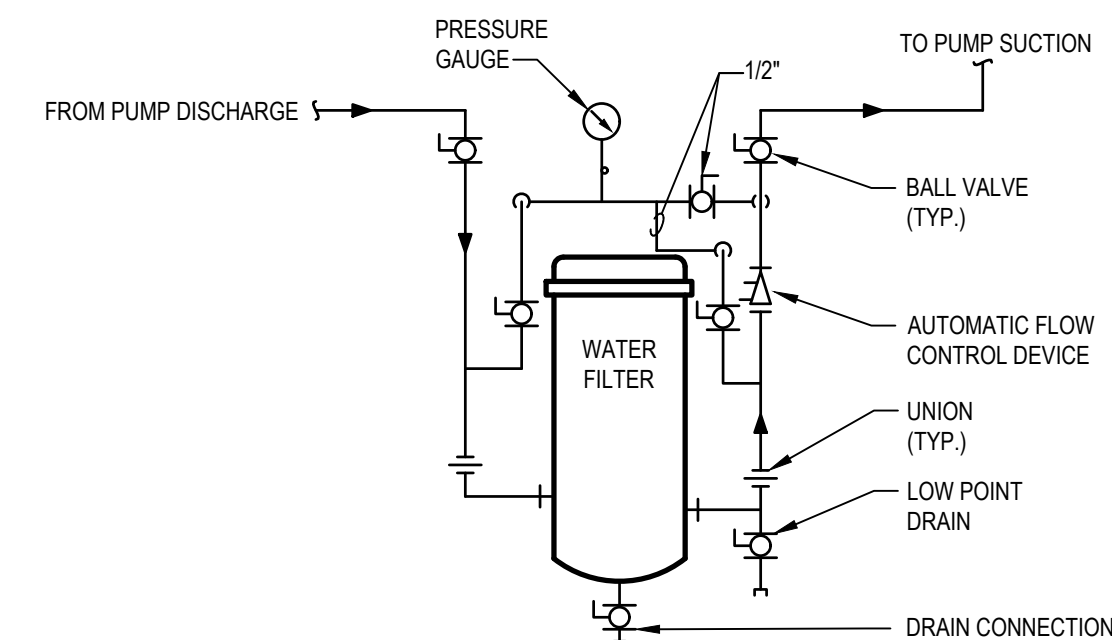
6 HEAT EXCHANGER - STEAM TO HOT WATER  
NO SCALE



7 SINGLE SUCTION FLOOR-MOUNTED PUMPS - CONNECTIONS WITH FLEXIBLE CONNECTORS  
NO SCALE



8 WATER TREATMENT - CLOSED LOOP HYDRONIC SYSTEMS  
NO SCALE

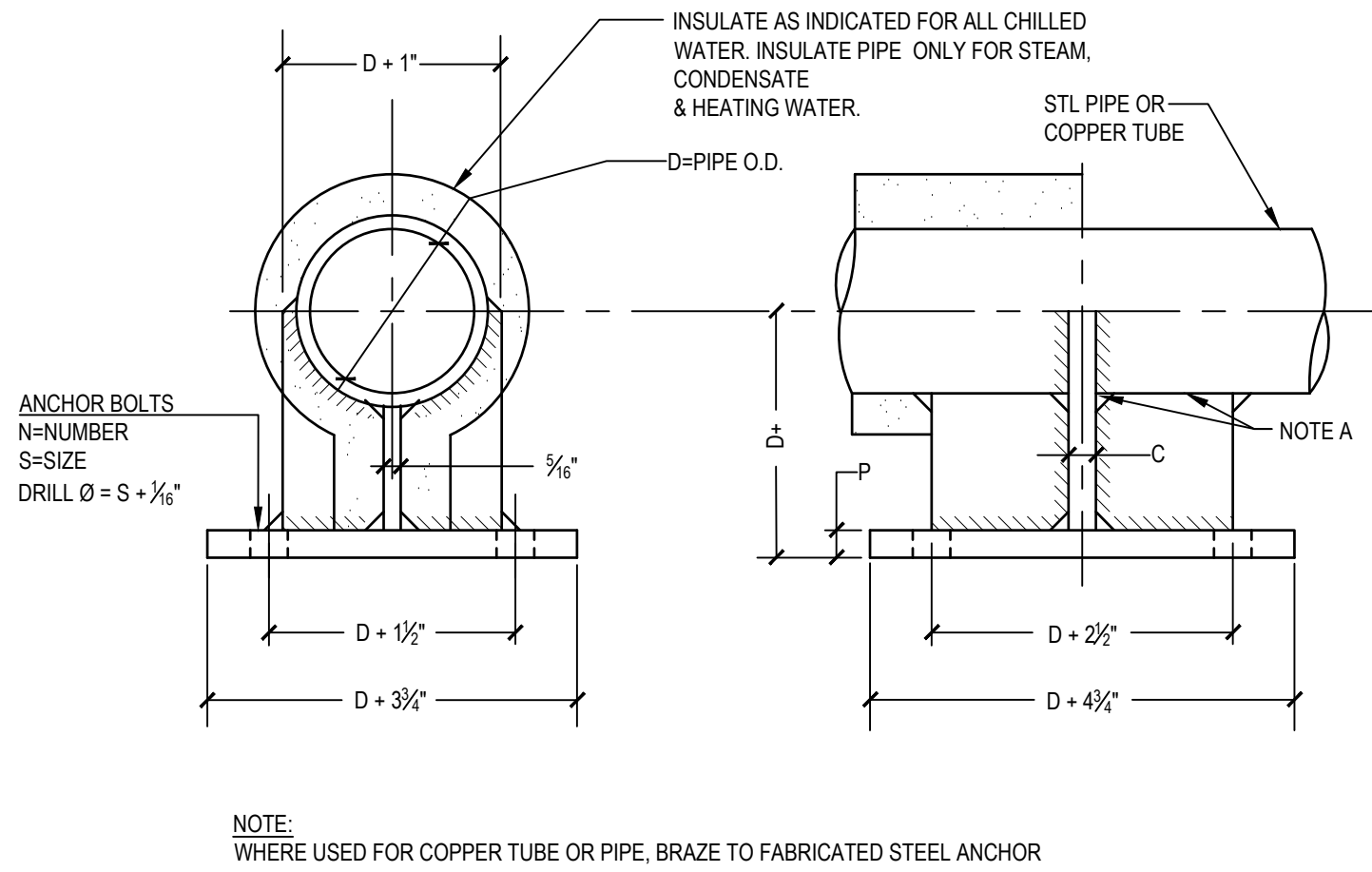


9 WATER FILTER - CLOSED LOOP HYDRONIC SYSTEMS  
NO SCALE

		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management  VA U.S. Department of Veterans Affairs	Drawing Title MECHANICAL DETAILS	Phase 100% SUBMISSION	Project Title UPGRADE STEAM SYSTEM PATIENT AREAS	Project Number 512A5-21-304
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080 A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE/SURVEY 703 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545	MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	PRIME A/E: VETERAN DESIGN & CONSTRUCTION, INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081			Approved: Project Director	-	Location VAMC PERRY POINT	Drawing Number M501
Revisions:		Date:		Issue Date 02/02/2024		Checked MC/NH	Drawn MB				

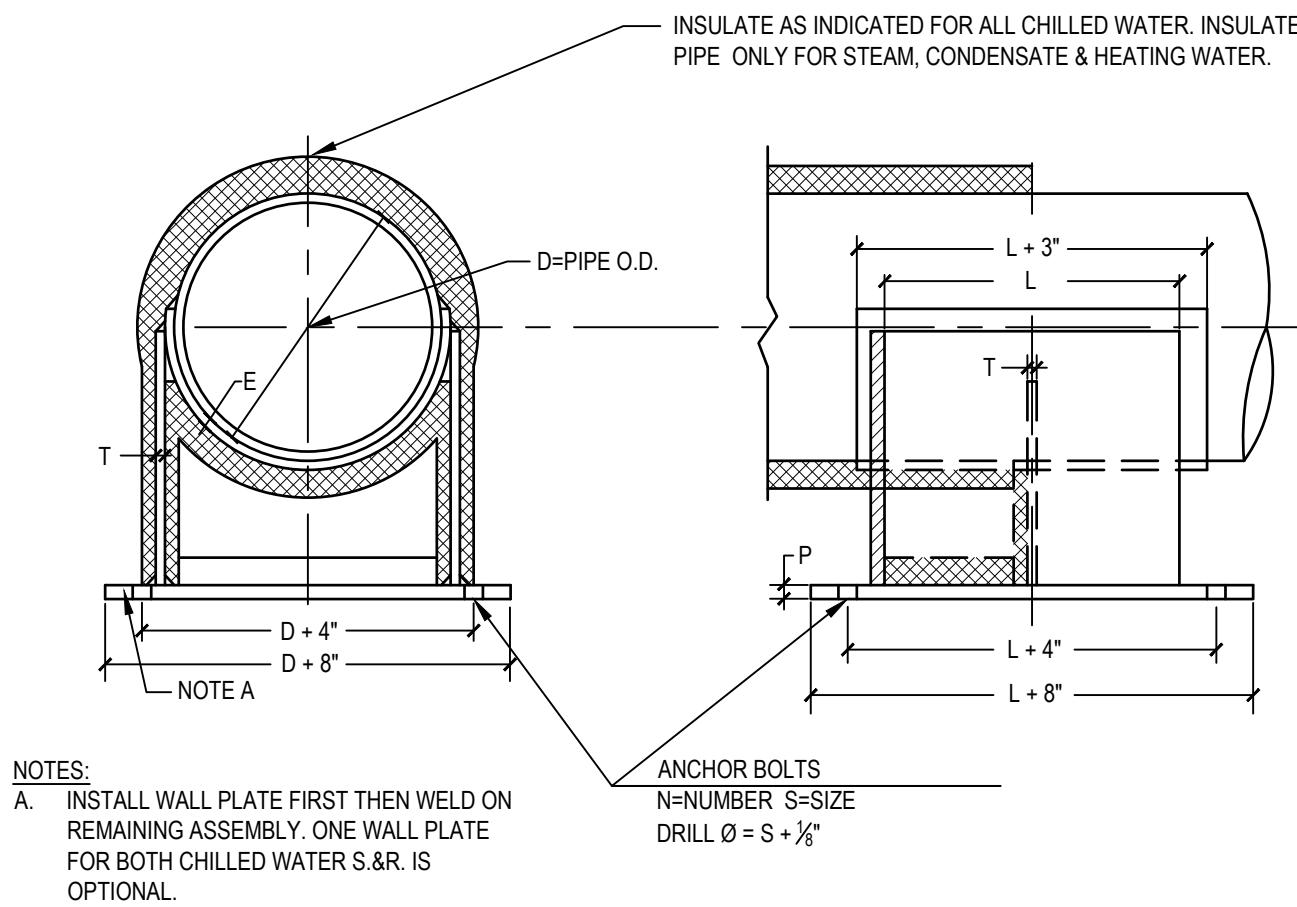


PIPE ANCHOR SCHEDULE						
D	P	C	N	S	BOLT PATTERN	
in	in	in	in	in		
4	3/8	3/8	4	3/8		
3	1/2	1/2	4	3/8		
2 1/2	3/8	3/8	4	3/8		
2	3/8	3/8	4	3/8		
1 1/2	3/8	3/8	4	3/8		

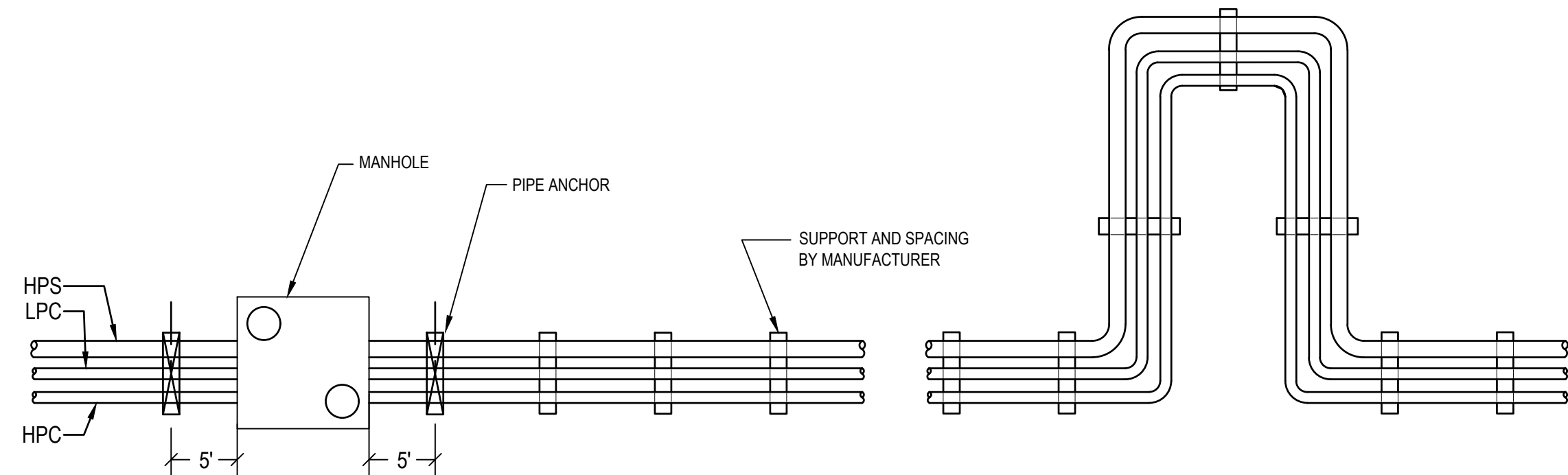


1 SMALL PIPE ANCHOR 38 - 1 1/2"-4" NO SCALE

PIPE ANCHOR SCHEDULE									
D	L	P	T	E	N	S	BOLT PATTERN		
in	in	in	in	in	in	in			
6	8 1/2	3/8	3/8	3/8	4	3/8			
8	10	3/8	3/8	3/8	4	3/8			
10	12	3/8	3/8	3/8	4	3/8			
12	14	3/8	3/8	3/8	4	3/8			
14	16	3/8	3/8	3/8	4	3/8			
16	18	3/8	3/8	3/8	4	3/8			
18	20	1	3/8	3/8	6	1			

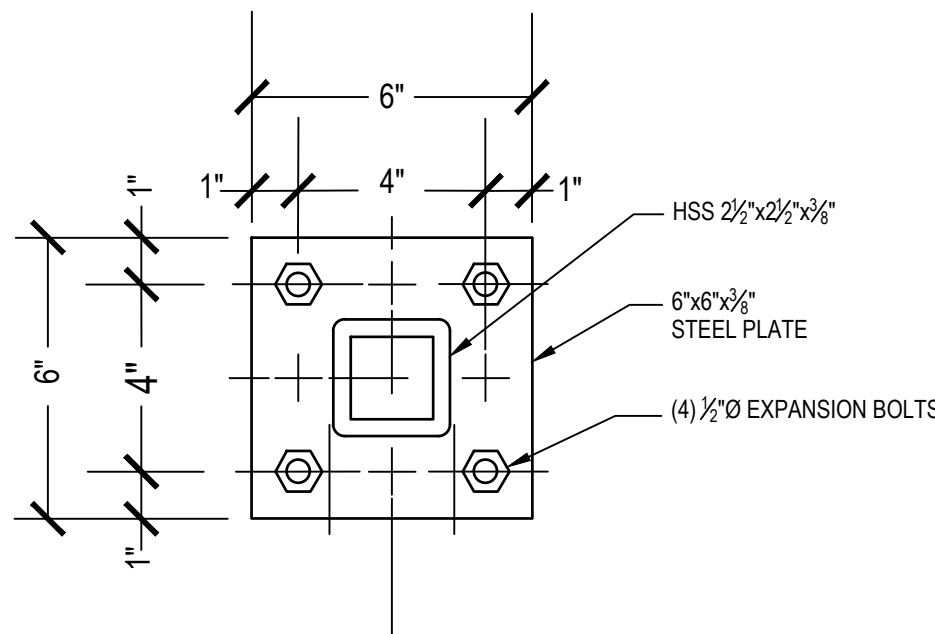


2 LARGE PIPE ANCHOR 152 - 6-18" NO SCALE

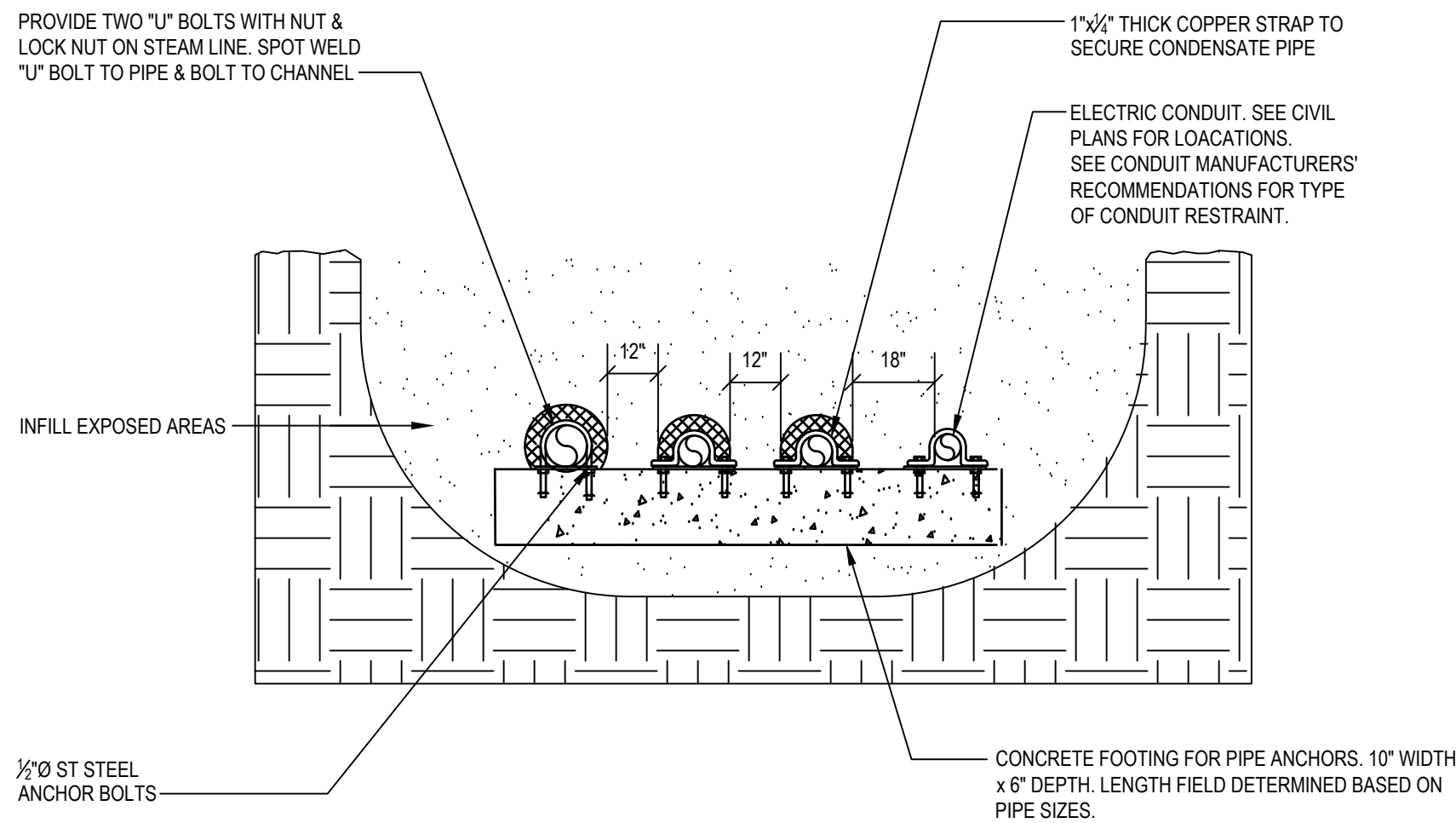


- NOTES:
- ANCHORS SHALL BE PLACED 5' FROM MANHOLES AND BUILDING WALLS.
  - INTERNALLY SUPPORT PRE-ENGINEERED PIPE EVERY 10 FEET, OR AS RECOMMENDED BY MANUFACTURER.
  - EXPANSION LOOP DESIGN SHALL BE BY PRE-ENGINEERED PIPE MANUFACTURER.
  - ALL CALCULATIONS SHALL BE BY PRE-ENGINEERED PIPE MANUFACTURER.
  - ALL BELOW GRADE ANCHORS, SUPPORTS, GUIDES, ETC SHALL BE BY PRE-ENGINEERED PIPE MANUFACTURER.

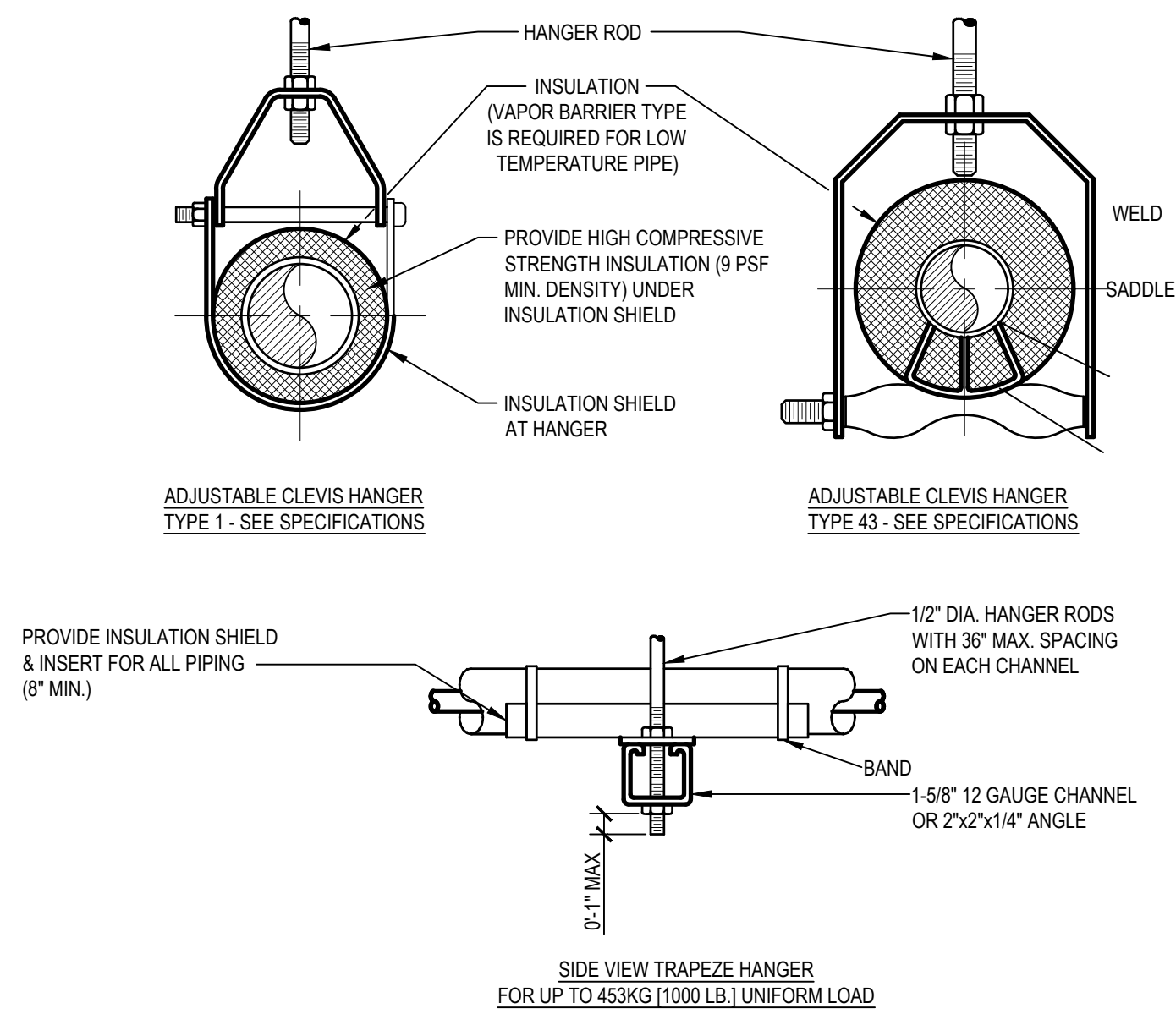
3 GUIDE, ANCHOR, AND SUPPORT LOCATIONS NO SCALE



4 ANCHOR PLATE DETAIL NO SCALE



5 PIPE ANCHOR DETAIL (TYP.) NO SCALE



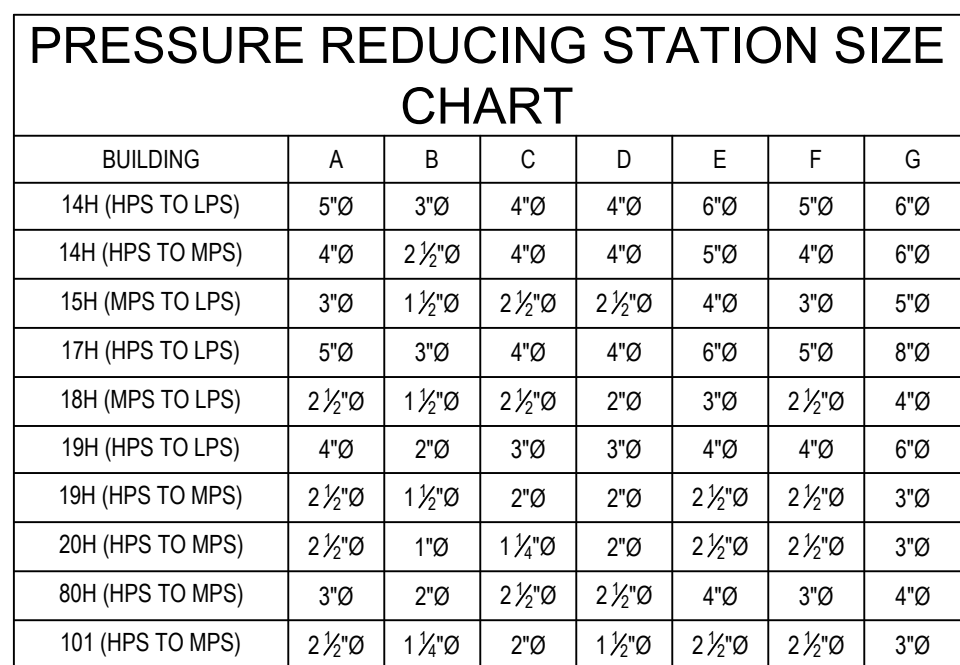
MAXIMUM PIPE/TUBING SUPPORT SPACING																	
NOM. SIZE	IN	THRU 1/2	1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12	14	16	18
PIPE	FT	7	7	7	9	10	11	12	14	16	17	19	22	23	25	27	28
TUBING	FT	5	6	7	8	8	9	10	12	13	14	16	-	-	-	-	-

NOTE: FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

6 TYPICAL PIPE HANGER SUPPORT NO SCALE

SUBCONSULTANTS		ARCH/ENGINEER OF RECORD		STAMP		Drawing Title		Phase		Project Title		Project Number							
DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080 A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE) / SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377		APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325		PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081				Office of Construction and Facilities Management VA U.S. Department of Veterans Affairs		MECHANICAL DETAILS		100% SUBMISSION		UPGRADE STEAM SYSTEM PATIENT AREAS		512A5-21-304	
Revisions:		Date:		Approved: Project Director		-		-		Location		Issue Date		Checked		Drawn		Building Number	
										VAMC PERRY POINT		02/02/2024		MC/NH		DS		--	
																		M502	



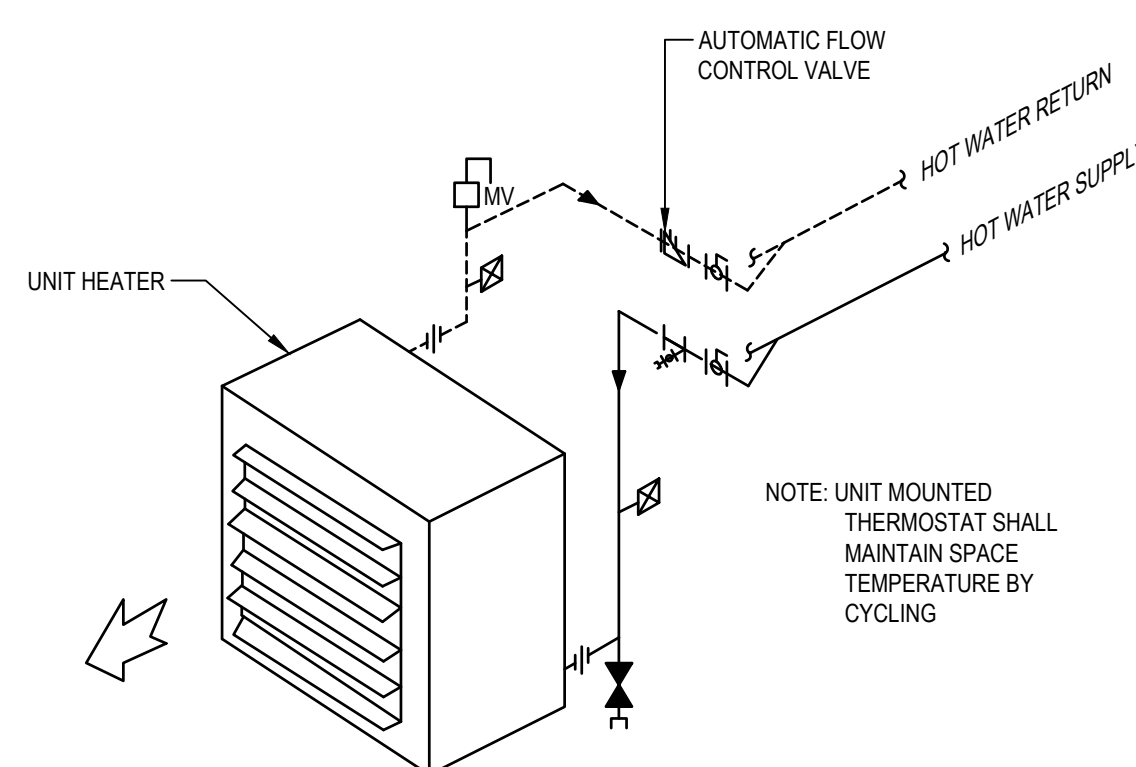


1. SAFETY RELIEF VALVE TO BE SET AT 10 PSI HIGHER OR 10% HIGHER THAN THE LOWER STEAM PRESSURE, WHICHEVER IS HIGHER.
2. PROVIDE REQUIRED UNIONS TO REMOVE PRV WHEN PRV HAS SCREWED CONNECTIONS.
3. PRESSURE REDUCING VALVES SHALL BE SIZED FOR INITIAL AND FINAL PRESSURES AND CAPACITIES AS GIVEN IN SCHEDULES ON THE DRAWINGS.
4. SAFETY VALVES SHALL BE SIZED SO AS TO RELIEVE AT PRESSURES OF 3 TO 10 LBS. IN EXCESS OF DELIVERED PRESSURES OF PRVS AND TO HAVE A CAPACITY EQUAL TO THE MAXIMUM CAPACITY OF THE PRV IT IS TO RELIEVE. VENT PIPE SHALL BE NO LESS THAN ONE PIPE SIZE LARGER THAN SAFETY VALVE DISCHARGE AND BE LOCATED SUCH THAT WHEN THE VALVE OPENS, THE STEAM DOES NOT EXCEED VAPOR PRESS. AT SAFETY VALVE OUTFLOW, VENTS FROM SAFETY VALVES SHALL BE THE SHORTEST AND MOST DIRECT ROUTE TO ATMOSPHERE THRU THE ROOF.

Diagram illustrating the components of the American BOA Model 1000 Safety Vent Connector assembly:

- CONNECT TO EX VENT STACK
- VENT TO OUTDOORS
- SAFETY VENT CONNECTOR AS MANUFACTURED BY AMERICAN BOA, INC.
- RELIEF VALVE
- INLET
- STEAM MAIN 60 PSI OR OVER (SEE DWGS FOR SIZE)
- OUTLET ELBOW
- TO FLOOR DRAIN

1. VENT PIPE SHALL BE NO LESS THAN ONE PIPE SIZE LARGER THAN SAFETY VALVE DISCHARGE AND SHALL FURTHER BE SIZED SO THAT FRICTIONAL RESISTANCE OF VENT DOES NOT EXCEED VELOCITY PRESSURE AT SAFETY VALVE OUTLET.
2. VENTS FROM SAFETY VALVES SHALL RUN THE SHORTEST AND MOST DIRECT ROUTE TO ATMOSPHERE THRU THE ROOF. WHERE VENTS RUN IN FINISHED SPACE THEY SHALL BE FURRED IN TO MATCH ADJACENT BUILDING CONSTRUCTION. IN UNFINISHED SPACE PIPE TO BE COVERED ONLY BY INSULATION.



### 3 TYPICAL CONNECTIONS TO HORIZONTAL HOT WATER UNIT HEATER

2 STEAM SAFETY VALVE AND SAFETY VENT CONNECTOR ASSEMBLY  
NO SCALE

Project Number	512A5-21-304
Building Number	--
Drawing Number	M503



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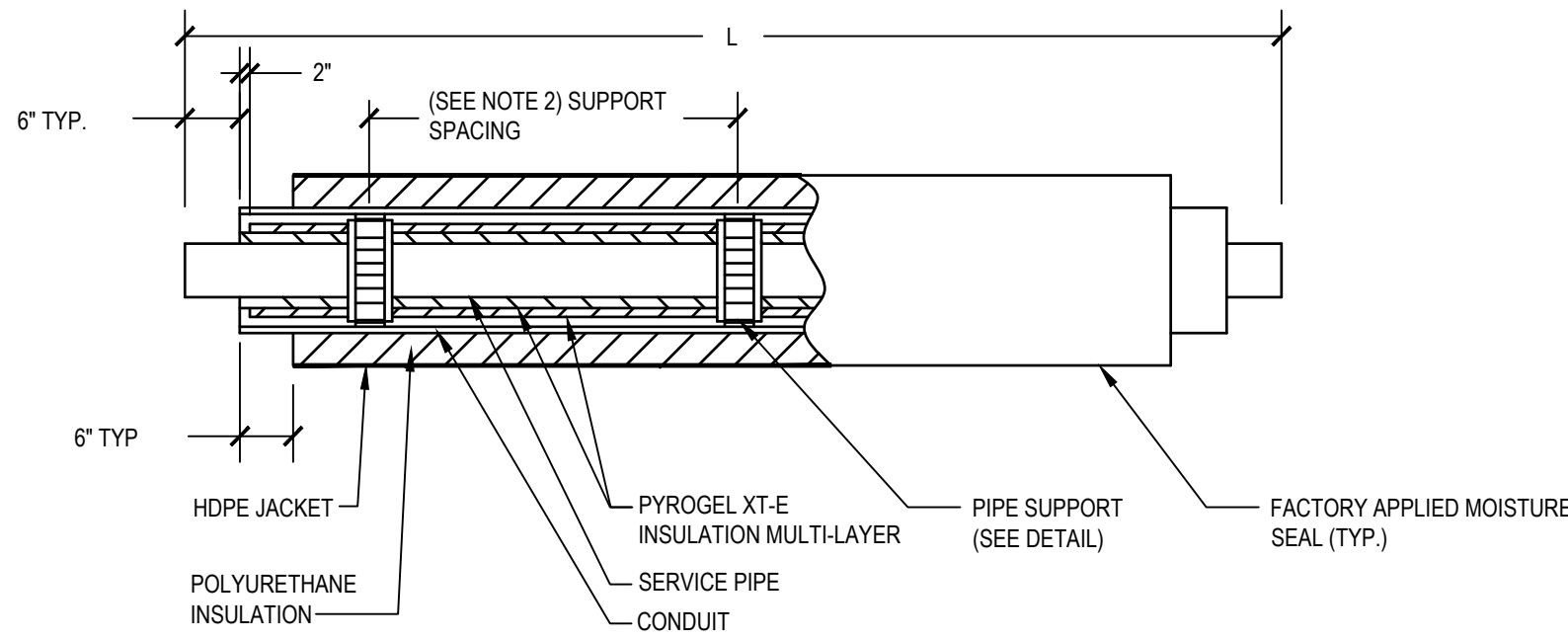
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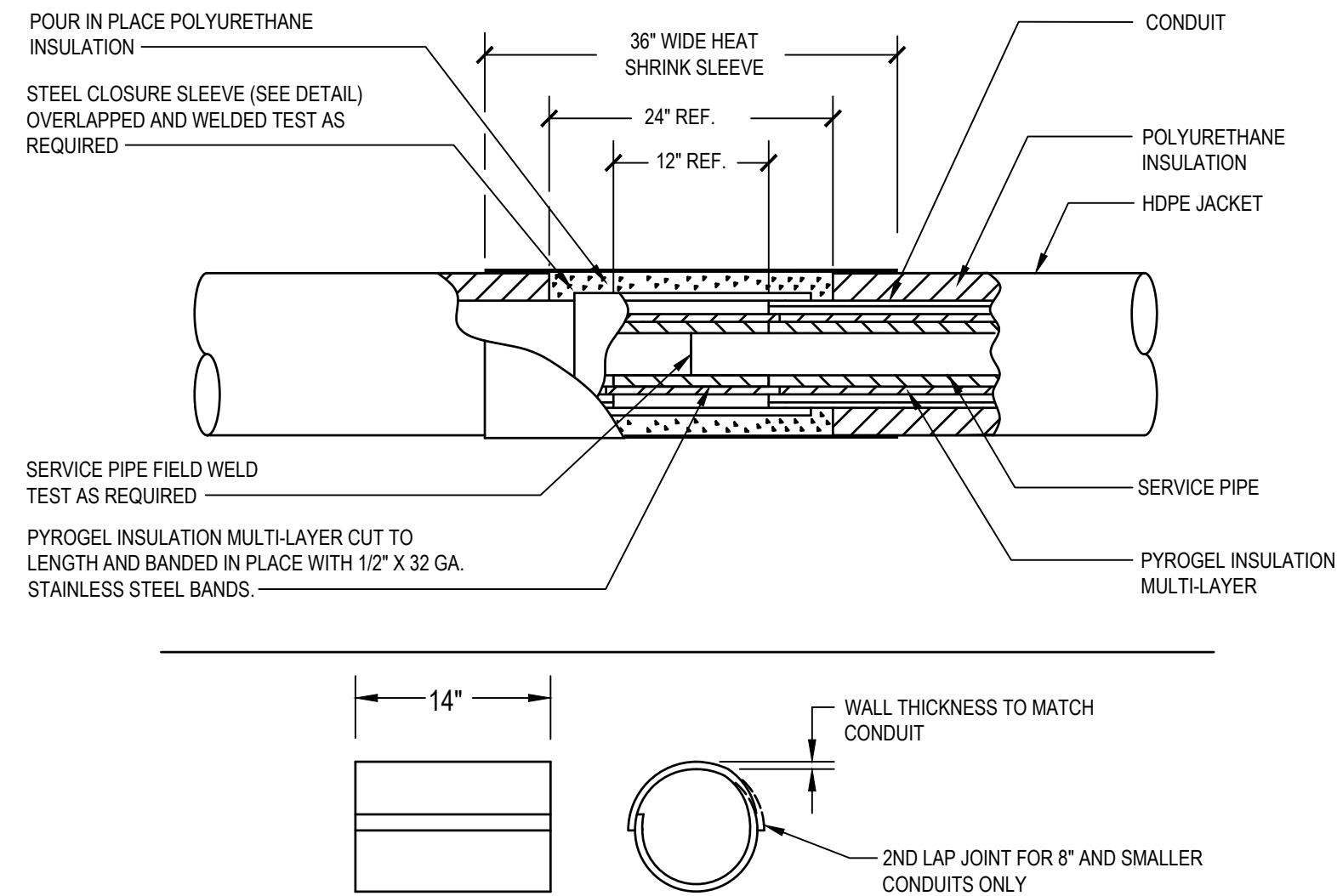
V



NOTES:

- FOR 2" AND SMALLER STEEL PIPE: SQUARE ENDS / SOCKET WELD FITTINGS
- FOR 2 1/2" AND LARGER STEEL PIPE: BEVELED ENDS / BUTTWELD FITTINGS

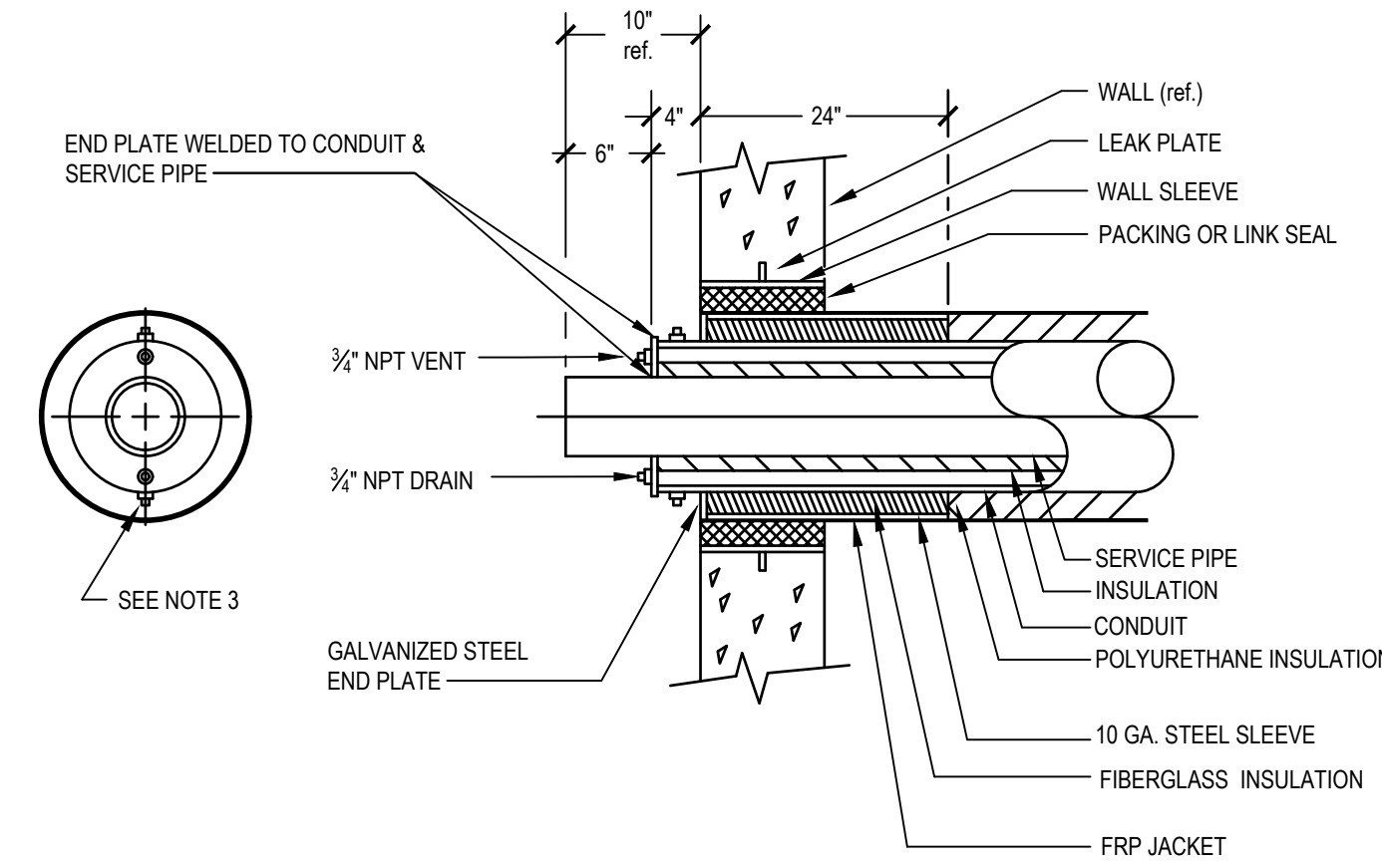
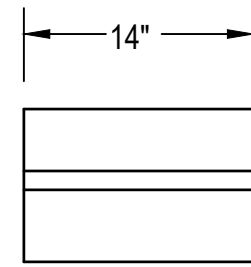
PIPE SIZE & MATERIAL	MAX. SUPPORT SPACING
≥ 4" STEEL	14'
≤ 3" STEEL	10'
COPPER	10'



NOTES:

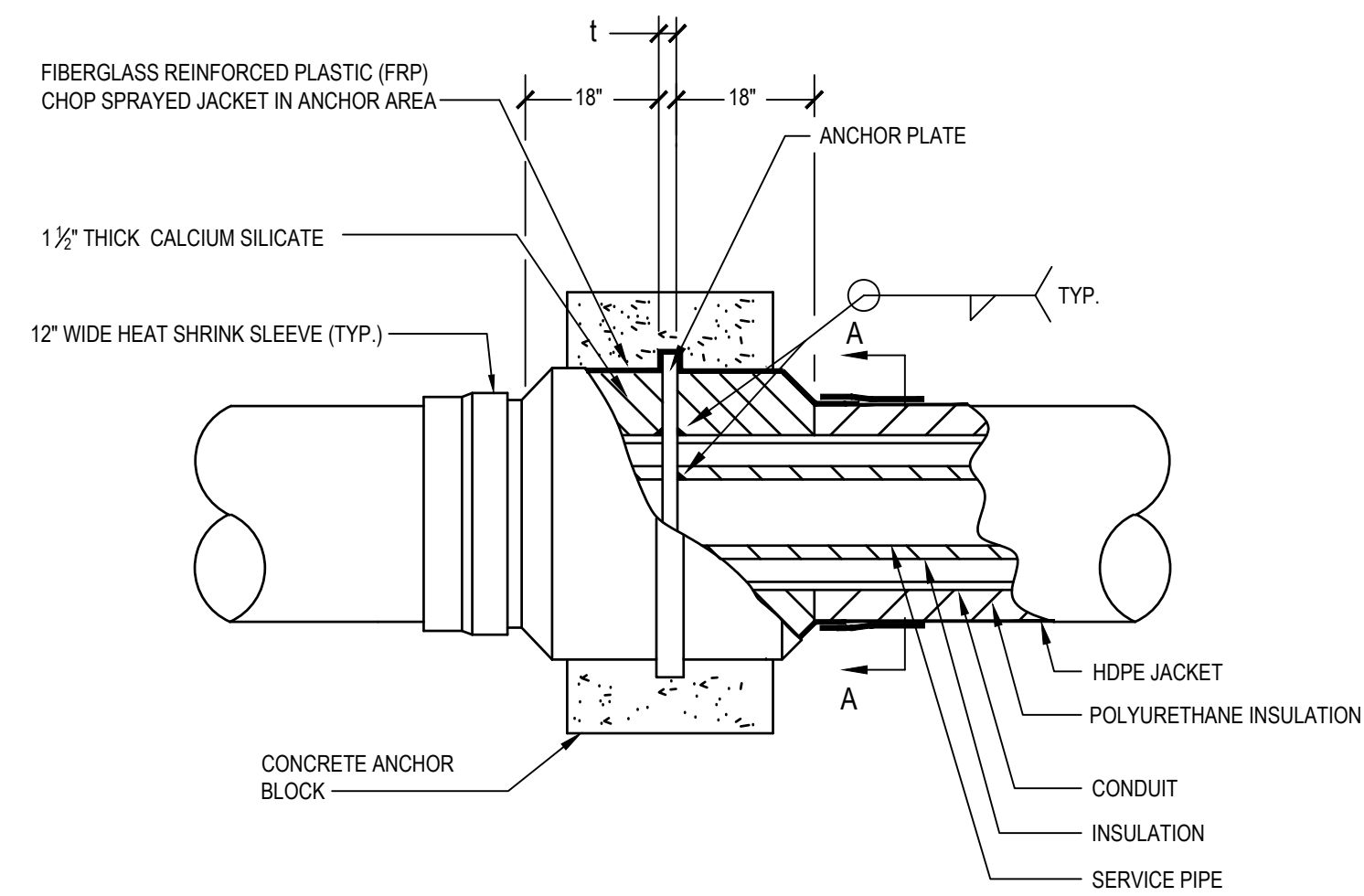
- SOCKETWELD COUPLINGS, IF REQUIRED, SUPPLIED BY INSTALLER.
- ROLLED SLEEVES NOT AVAILABLE FOR CONDUIT SMALLER THAN 6".
- MAXIMUM ROLLED SLEEVE THICKNESS: 1/4".
- STORE ALL CHEMICALS AT 60°F TO 85°F.

STEEL CLOSURE SLEEVE



NOTES:

- WALL SLEEVES AND LEAK PLATES BY CONTRACTOR.
- PACKING OR LINK SEALS BY OTHERS.
- ALTERNATE VENT AND DRAIN LOCATIONS ON CONDUIT OD WHEN THERE IS INSUFFICIENT ROOM ON THE END PLATE.
- SEE STRUCTURAL DETAILS FOR MORE INFORMATION.



SECTION A - A

NOTES:

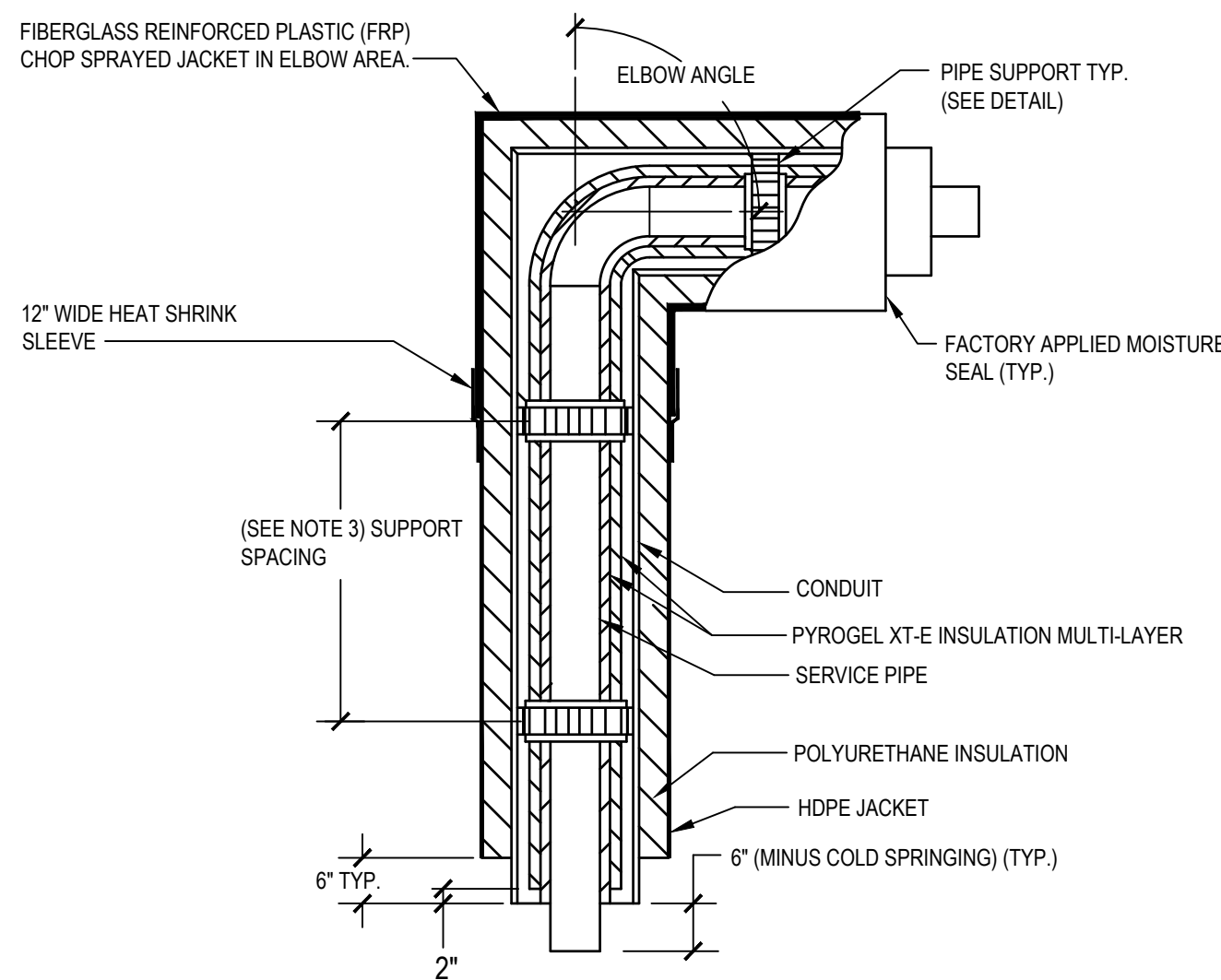
- t = ANCHOR PLATE THICKNESS 1/2" FOR 2" AND SMALLER CONDUIT 3/4" FOR 2 1/2" AND LARGER CONDUIT \* SPECIAL PLATE THICKNESS REQUIRED FOR SYSTEMS W/ EXPANSION JOINTS.
- MAXIMUM DESIGN TEMPERATURE: 366°F.

1 PRE - ENGINEEDED DIRECT - BURIED PIPE - STRAIGHT ASSEMBLY  
NO SCALE

2 PRE - ENGINEERED DIRECT - BURIED PIPE - FIELD JOINT, HEAT SHRINK SLEEVE ROLLED CONDUIT SLEEVE  
NO SCALE

3 PRE - ENGINEERED DIRECT - BURIED PIPE - END SEAL ASSEMBLY  
NO SCALE

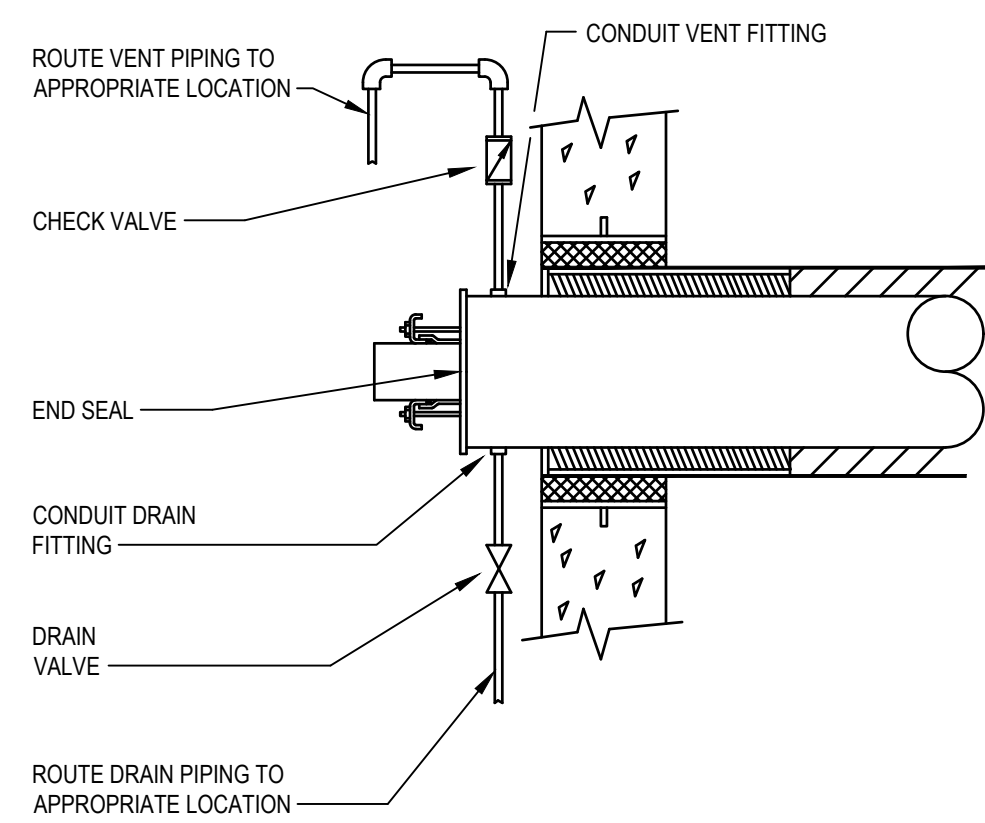
4 PRE - ENGINEEDED DIRECT - BURIED PIPE - ANCHOR  
NO SCALE



NOTES:

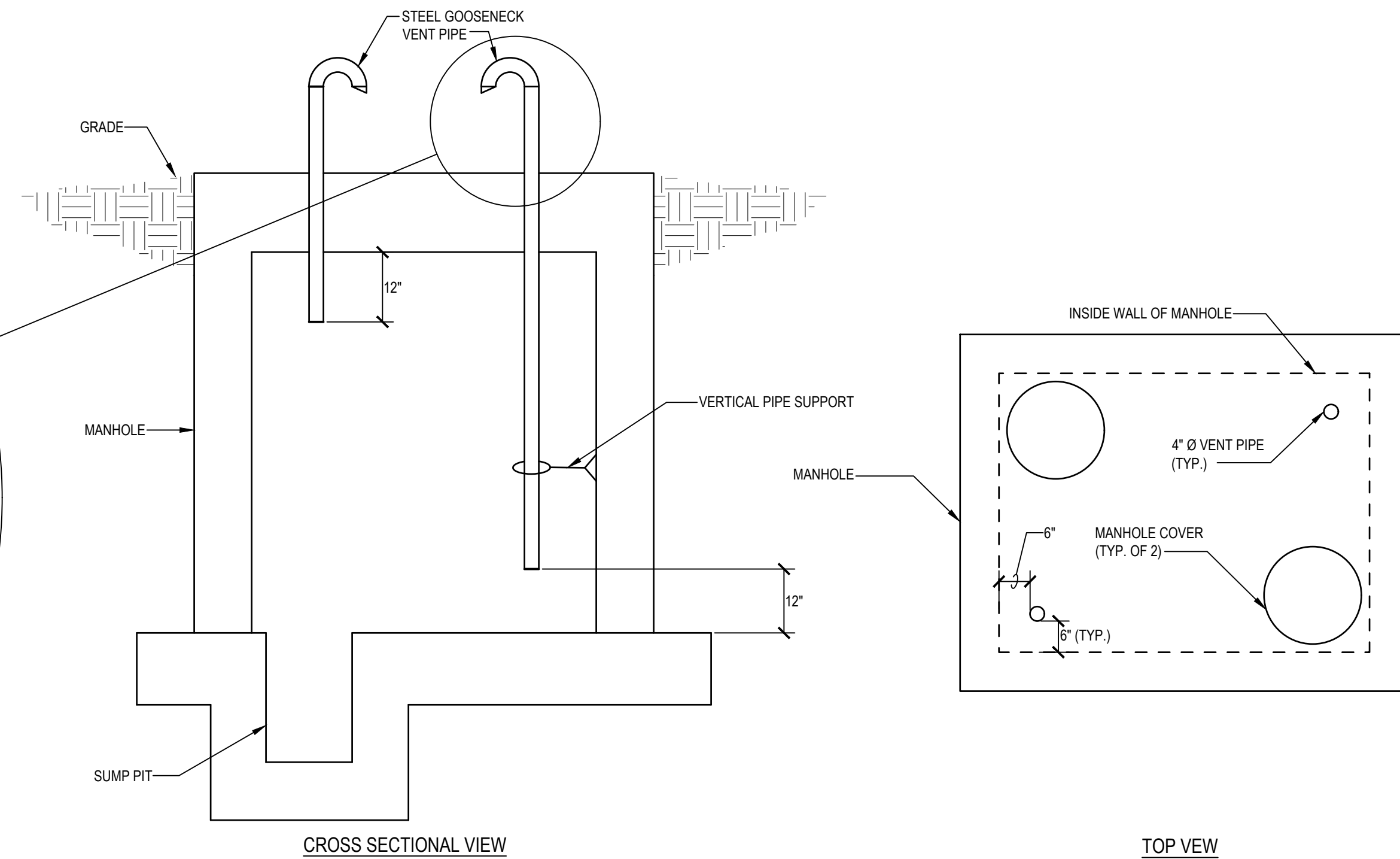
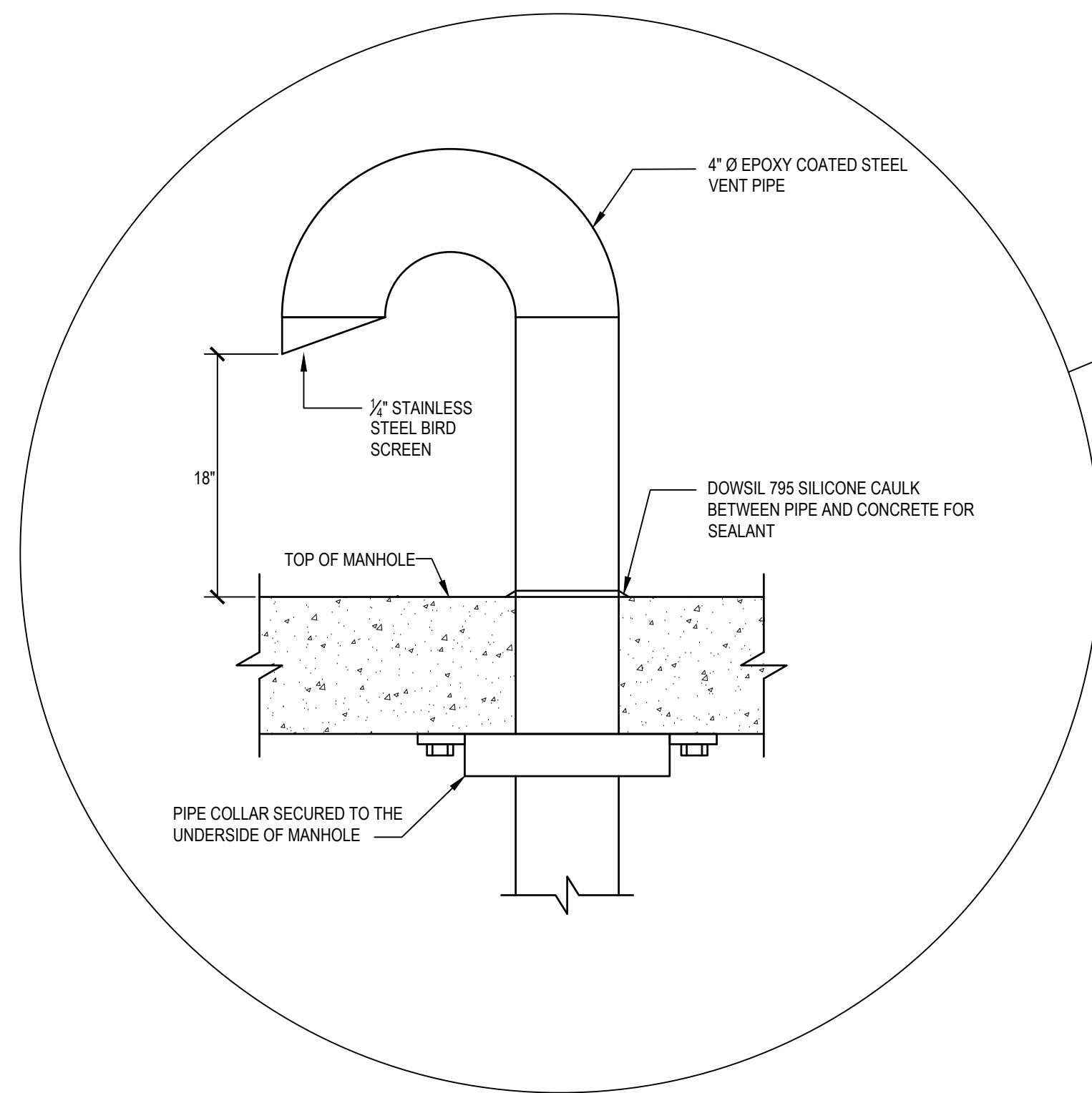
- FOR 2" AND SMALLER STEEL PIPE: SQUARE ENDS / SOCKET WELD FITTINGS
- FOR 2 1/2" AND LARGER STEEL PIPE: BEVELED ENDS / BUTTWELD FITTINGS
- PIPE BENDING IN PLACE OF WELDED ELBOWS MAY BE USED.

PIPE SIZE & MATERIAL	MAX. SUPPORT SPACING
≥ 4" STEEL	14'
≤ 3" STEEL	10'
COPPER	10'



NOTES:

- VENT AND DRAIN PIPING, FITTINGS AND VALVES SUPPLIED AND INSTALLED BY CONTRACTOR.
- KEEP DRAIN VALVE IN THE CLOSED POSITION TO PREVENT WATER AND MOISTURE FROM ENTERING THE CONDUIT. ONLY OPEN DRAIN VALVE TO DRAIN LIQUID FROM THE CONDUIT.



NOTES:

- SEE STRUCTURAL DRAWINGS FOR MORE MANHOLE INFORMATION.
- GOOSENECK VENTS PER VETERAN AFFAIRS STEAM, HEATING HOT WATER, AND OUTSIDE DISTRIBUTION SYSTEMS DESIGN MANUAL VOLUME 3, SECTION 5.12.10.

5 PRE - ENGINEEDED DIRECT - BURIED PIPE - ELBOW ASSEMBLY  
NO SCALE

6 PRE - ENGINEERED DIRECT - BURIED PIPE - RECOMMENDED CONDUIT VENT & DRAIN PIPING  
NO SCALE

7 MANHOLE VENT DETAIL  
NO SCALE

SUBCONSULTANTS		ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management		Drawing Title	Phase	Project Title	Project Number
DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080 A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE) SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	PRIME A/E: VETERAN DESIGN & CONSTRUCTION, INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081	STATE OF MARYLAND PROFESSIONAL ENGINEER NO. 287292	MECHANICAL DETAILS	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS	512A5-21-304
Revisions:		Date:	Approved: Project Director		Location		Issue Date	Checked	Drawn
					VAMC PERRY POINT		02/02/2024	MC/NH	AB
									M504



## STEAM CONDENSATE PUMP SCHEDULE

MARK	LOCATION	SERVICE	TYPE	PUMP CAPACITY GPM	SYSTEM CAPACITY LBS / HR	RECEIVER CAPACITY GALLON	DISCHARGE HEAD PSI	ELECTRICAL		MANUFACTURER & MODEL NO.	REMARKS
								HP	V-P-H		
14H-CDP-1	BLDG 14H	LOW PRESSURE CONDENSATE	DUPLEX	45	8,250	52	60	2 @ 5 EA	SEE ELEC.	DOMESTIC PUMP MODEL 52CB45-60	ALL
15H-CDP-1	BLDG 15H	LOW PRESSURE CONDENSATE	DUPLEX	9	1,282	23	40	2 @ 1.5 EA	SEE ELEC.	DOMESTIC PUMP MODEL 23CB8-40	ALL
17H-CDP-1	BLDG 17H	LOW PRESSURE CONDENSATE	DUPLEX	30	4,366	36	40	2 @ 2 EA	SEE ELEC.	DOMESTIC PUMP MODEL 36CB30-40	ALL
18H-CDP-1	BLDG 18H	LOW PRESSURE CONDENSATE	DUPLEX	9	1,020	23	50	2 @ 1.5 EA	SEE ELEC.	DOMESTIC PUMP MODEL 23CB8-50	ALL
19H-CDP-1	BLDG 19H	LOW PRESSURE CONDENSATE	DUPLEX	45	6,570	52	30	2 @ 1.5 EA	SEE ELEC.	DOMESTIC PUMP MODEL 52CB45-30	ALL
20H-CDP-1	BLDG 20H	LOW PRESSURE CONDENSATE	DUPLEX	9	912	23	25	2 @ 0.5 EA	SEE ELEC.	DOMESTIC PUMP MODEL 23CB8-25	ALL
101-CDP-1	BLDG 101	LOW PRESSURE CONDENSATE	DUPLEX	9	966	23	15	2 @ 0.33 EA	SEE ELEC.	DOMESTIC PUMP MODEL 23CB8-15	ALL

FLASH TANK SCHEDULE											
MARK	LOCATION	SERVICE	TYPE	TANK CAPACITY LBS/HR	TANK CAPACITY GAL	TANK SIZE IN	VENT SIZE IN	INLET SIZE IN	OUTLET SIZE IN	MANUFACTURER & MODEL NO.	REMARKS
14H-FT-1	BLDG 14H	HIGH PRESSURE CONDENSATE	HORIZONTAL	160	45	16DIA. X 54"L.	2 ½"	2"	2 ½"	WATSON MCDANIEL SERIES WFLH-18	ALL
15H-FT-1	BLDG 15H	HIGH PRESSURE CONDENSATE	HORIZONTAL	61	20	12DIA. X 40"L.	1 ½"	1 ½"	1 ½"	WATSON MCDANIEL SERIES WFLH-16	ALL
17H-FT-1	BLDG 17H	HIGH PRESSURE CONDENSATE	HORIZONTAL	117	35	16DIA. X 40"L.	2"	2"	2"	WATSON MCDANIEL SERIES WFLH-17	ALL
18H-FT-1	BLDG 18H	HIGH PRESSURE CONDENSATE	HORIZONTAL	61	20	12DIA. X 40"L.	1 ½"	1 ½"	1 ½"	WATSON MCDANIEL SERIES WFLH-16	ALL
19H-FT-1	BLDG 19H	HIGH PRESSURE CONDENSATE	HORIZONTAL	160	45	16DIA. X 54"L.	2 ½"	2"	2 ½"	WATSON MCDANIEL SERIES WFLH-18	ALL
101-FT-1	BLDG 101	HIGH PRESSURE CONDENSATE	HORIZONTAL	61	20	12DIA. X 40"L.	1 ½"	1 ½"	1 ½"	WATSON MCDANIEL SERIES WFLH-16	ALL

REMARKS:  
1. CARBON STEEL BODY WITH 150 PSIG MAX OPERATING PRESSURE.  
2. 366 DEG F MAX OPERATING TEMPERATURE.  
3. ASME SECTION VIII CODE STAMP REQUIRED.  
4. PROVIDE INTERNAL SPARGE TUBE AT INLET AND INTERNAL DROP LEG AT OUTLET.

<b>MARK</b>	<b>LOCATION</b>	<b>SERVICE</b>	<b>MIN FLOW COEFFICIENT</b>	<b>FLOW</b>	<b>SIZE</b>	<b>INLET PRESSURE</b>		<b>MANUFACTURER &amp; MODEL NO.</b>	<b>REMARKS</b>
			<b>CV</b>	<b>LBS/HR</b>	<b>IN</b>	<b>MAX (PSIG)</b>	<b>MIN (PSIG)</b>		
[14H-SCV-1]	BLDG 14H	BLDG ST-HW HX: 1/3	7.3	840	3/4	100	20	SPIRAX/SARCO "SPIRA-TROL LE43" TWO-PORT CONTROL VALVE AND "AEL7 SERIES" ELECTRIC LINEAR ACTUATOR	ALL
[14H-SCV-2]	BLDG 14H	BLDG ST-HW HX: 2/3	12.0	1,680	1	100	20	SPIRAX/SARCO "SPIRA-TROL LE43" TWO-PORT CONTROL VALVE AND "AEL7 SERIES" ELECTRIC LINEAR ACTUATOR	ALL
[14H-SCV-3]	BLDG 14H	BLDG ST-HW HX: 1/3	7.3	840	3/4	100	20	SPIRAX/SARCO "SPIRA-TROL LE43" TWO-PORT CONTROL VALVE AND "AEL7 SERIES" ELECTRIC LINEAR ACTUATOR	ALL
[14H-SCV-4]	BLDG 14H	BLDG ST-HW HX: 2/3	12.0	1,680	1	100	20	SPIRAX/SARCO "SPIRA-TROL LE43" TWO-PORT CONTROL VALVE AND "AEL7 SERIES" ELECTRIC LINEAR ACTUATOR	ALL

**REMARKS:**  
 1. CAST IRON COMPONENTS OR MALLEABLE FITTINGS NOT PERMITTED. MUST USE CAST OR FORGED STEEL.  
 2. CONTROL VALVES PROVIDED FOR STEAM SHALL BE GLOBE VALVES.  
 3. PROVIDE ELECTRIC ACTUATOR, FULL CLOSURE WITHIN 50 SECONDS.  
 4. VALVES PROVIDED BY MECHANICAL CONTRACTOR, WIRING AND CONDUIT BY CONTROL CONTRACTOR.

MARK	TYPE	MAX CAPACITY LBS / HR	MIN. DIFF. PRESSURE PSI	MAX. DIFF. PRESSURE PSI	ORIFICE SIZE	PIPE CONN.	MANUFACTURER & MODEL NO.	REMARKS
T-1	F&T	3,000	5	10	3/8	1 1/4"	ARMSTRONG MODEL A	1, 2, 4
T-2	INVERTED BUCKET	1,000	5	10	1/8	3/4"	ARMSTRONG MODEL 811	2, 3, 4
T-3	INVERTED BUCKET	3,000	5	10	1/4	1"	ARMSTRONG MODEL 813	2, 3, 4

**REMARKS:**

- F&T (FLOAT AND THERMOSTATIC) TRAP FOR GRAVITY FED APPLICATIONS LESS THAN 30 PSI. APPLIED AT INDOOR STEAM LINE DRIP POINTS.
- SEE FLOOR PLANS FOR LOCATIONS OF THE STEAM TRAPS
- INVERTED BUCKET FOR APPLICATIONS 30 PSI STEAM AND GREATER
- CAST IRON COMPONENTS OR MALLEABLE FITTINGS NOT PERMITTED. MUST USE CAST OR FORGED STEEL.

VA FORM 08 - 6231

1	2	3	4	5	6	7	8	9	10
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## STEAM TO HOT WATER HEAT EXCHANGER SCHEDULE

MARK	LOCATION	SERVICE	TYPE	WATER CONDITIONS				STEAM PRESSURE		CONTROL VALVE LBS / HR	CONNECTION		TRAP		MANUFACTURER & MODEL NO.	REMARKS
				FLOW (GPM)	EWT (°F)	LWT (°F)	WPD (FT.)	ENT CONTROL VALVE (PSIG)	ENT HEAT EXCHANGER (PSIG)		SHELL IN / OUT	TUBE IN / OUT	TRAP #	CAPACITY (LBS / HR)		
14H-C1	BLDG 14H	HEATING WATER	SHELL & TUBE	240	160	180	-	30	-	2,525	4" / 1.5"	4" / 4"	-	-	ARMSTRONG "WS-1002-200E"	ALL
14H-C2	BLDG 14H	HEATING WATER	SHELL & TUBE	240	160	180	-	30	-	2,525	4" / 1.5"	4" / 4"	-	-	ARMSTRONG "WS-1002-200E"	ALL

**REMARKS:**  
1. ASME CONSTRUCTION, SHELL AND TUBE TYPE, HORIZONTAL MOUNTING, SADDLE TYPE, SUPPORT BASE WITH HEIGHT AS SHOWN ON DRAWINGS.  
2. FLANGED INLET AND OUTLETS FOR STEAM AND WATER.

## PUMP SCHEDULE

MARK	LOCATION	SERVICE	GPM	RPM	FT / HD	HP	V-P-H	FLANGE		MANUFACTURER & MODEL NO.	REMARKS
								SUCT.	DISC.		
14H-P1	BLDG 14H	CHILLED WATER	350	1,780	110	20	208-3-60	6"	4"	ARMSTRONG "SERIES 4030"	ALL
14H-P2	BLDG 14H	CHILLED WATER	350	1,780	110	20	208-3-60	6"	4"	ARMSTRONG "SERIES 4030"	ALL
14H-P3	BLDG 14H	HEATING WATER	240	1,770	80	7.5	208-3-60	4"	3"	ARMSTRONG "SERIES 4030"	ALL
14H-P4	BLDG 14H	HEATING WATER	240	1,770	80	7.5	208-3-60	4"	3"	ARMSTRONG "SERIES 4030"	ALL

**REMARKS:**

1. END SUCTION PUMP.
2. PROVIDE 4" HOUSEKEEPING PAD.
3. PROVIDE EXTERNALLY MOUNTED VFD. PROVIDED BY MECHANICAL CONTRACTOR.

## EXPANSION TANK SCHEDULE




MARK	LOCATION	SERVICE	TYPE	ACCEPT. VOL GAL	DIAMETER	HEIGHT IN	SYSTEM CONNECTION	WEIGHT LBS	MANUFACTURER & MODEL NO.
ET-1	BLDG 14H	CHILLED WATER	VERTICAL	128	30"DIA	63"	1 1/2"	591	ARMSTRONG MODEL AX-260V
ET-2	BLDG 14H	HEATING WATER	VERTICAL	128	24"DIA	63"	1 1/2"	591	ARMSTRONG MODEL AX-260V


























ET-2	BLDG 14H	HEATING WATER	VERTICAL	128	24"DIA	63"	1 1/2"	591	ARMSTRONG MODEL AX-260V
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























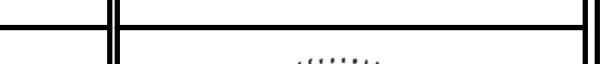
## PLUMBING SYMBOLS AND ABBREVIATIONS

- |         |         |                                  |       |      |                                   |
|---------|---------|----------------------------------|-------|------|-----------------------------------|
| AE      | AD      | ARCHITECT / ENGINEER             | LAV   | LW   | LAVATORY                          |
| AD      | AD      | AREA DRAIN/ACCESS DOOR           | LW    | LOW  | LOW WATER                         |
| AF      | AF      | ABOVE FINISH FLOOR               | LWT   |      | LEAVING WATER TEMPERATURE         |
| AFG     | AFG     | ABOVE FINISH GRADE               | M     |      | METER                             |
| AP      | AP      | AIR GAP                          | MB    | MAX  | MAXIMUM                           |
|         |         | ACCESS PANEL                     | MH    | 1000 | BTU                               |
| B       | B       | BOILER                           | MHI   |      | MANHOLE                           |
| BFP     | BFP     | BACKFLOW PREVENTER               | MSB   |      | MOP SERVICE BASIN                 |
| BTU     | BTU     | BRITISH THERMAL UNIT             |       |      |                                   |
|         |         |                                  | NA    |      | NOT APPLICABLE                    |
| CD/COND | CD/COND | CONDENSATE                       | NC    |      | NORMALLY CLOSED                   |
| CFH     | CFH     | CUBIC FEET PER HOUR              | NG    |      | NATURAL GAS                       |
| CO      | CO      | CLEANOUT                         | NGFM  |      | NATURAL GAS FLOWMETER             |
| CP      | CP      | CONDENSATE PUMP                  | NT    |      | NOT IN CONTRACT                   |
| CS      | CS      | CONDENSATE STORAGE TANK          | NO    |      | NORMALLY OPEN                     |
| CV      | CV      | CONTROL VALVE                    | NCS   |      | NOT TO SCALE                      |
| CWR     | CWR     | COLD WATER RECIRCULATION         |       |      |                                   |
|         |         |                                  | OSO   |      | OPEN SITE DRAIN                   |
| DCW     | DCW     | DOMESTIC COLD WATER              | OFD   |      | OVERFLOW DRAIN                    |
| DEG     | DEG     | DEGREE                           |       |      |                                   |
| DFU     | DFU     | DRAINAGE FIXTURE UNITS           | P     |      | PUMP                              |
| DHW     | DHW     | DOMESTIC HOT WATER               | PC    |      | PUMPED CONDENSATE                 |
| DIA     | DIA     | DIAMETER                         | PS    |      | PRESSURE GAGE                     |
| DFU     | DFU     | DRAINAGE FIXTURE UNITS           | PM    |      | PARTS PER MILLION                 |
| DN      | DN      | DOWN                             | PRS   |      | PRESSURE REDUCING STATION         |
| DS      | DS      | DOWNSPOUT                        | PRV   |      | PRESSURE REDUCING VALVE           |
| DWG     | DWG     | DRAWING                          | PSI   |      | POUNDS PER SQUARE INCH            |
| DWH     | DWH     | DOMESTIC HOT WATER HEATER        | PRVR  |      | PRESSURE TEMPERATURE RELIEF VALVE |
|         |         |                                  |       |      |                                   |
| EL      | EL      | ELEVATION                        | RD    |      | ROOF DRAIN                        |
| ET      | ET      | EXPANSION TANK                   | RL    |      | ROOF DRAIN LEADER                 |
| EW      | EW      | ELECTRIC WATER HEATER            | RL    |      | ROOF LEADER                       |
| EWS     | EWS     | ELECTRIC WASH STATION            | RPL   |      | RECYCULATION PUMP                 |
| EXT     | EXT     | ENTRANCE WATER TEMPERATURE       | RV    |      | REVERSE OSMOSIS WATER             |
| EX      | EX      | EXISTING                         | RVL   |      | RELIEF VALVE                      |
|         |         |                                  | RW    |      | RAIN WATER LEADER                 |
|         |         |                                  |       |      |                                   |
| F       | F       | FAHRENHEIT                       | SAN   |      | SANITARY SEWER                    |
| FCO     | FCO     | FLOOR CLEANOUT                   | SDMH  |      | STORM DRAIN MANHOLE               |
| FCD     | FCD     | FILTERED COLD WATER              | SMH   |      | SANITARY MANHOLE                  |
| FD      | FD      | FLOOR DRAIN                      | SMP   |      | SUMP PUMP                         |
| FDC     | FDC     | FIRE DEPARTMENT(HOSE) CONNECTION | SPR   |      | SPRINKLER LINE                    |
| FH      | FH      | FIRE HOSE VALVE                  | SQ    |      | SQUARE FEET                       |
| FM      | FM      | FLOW METER                       | SW    |      | STORM WATER                       |
| FS      | FS      | FLOOR SINK                       |       |      |                                   |
| FS      | FS      | FLOOR SINK                       |       |      |                                   |
|         |         |                                  | T     |      | TRENCH DRAIN                      |
| G       | G       | GAS                              | TEMP  |      | TEMPERATURE                       |
| GA      | GA      | GAUGE                            | TMV   |      | THERMOSTATIC MIXING VALVE         |
| GAL     | GAL     | GALLONS                          | TP    |      | TRAP PRIMER                       |
| GCO     | GCO     | GRAVE CLEANOUTS                  | T     |      | TYPE                              |
| GPM     | GPM     | GALLONS PER MINUTE               | V     |      | VENT                              |
| GAS     | GAS     | GAS PRESSURE REGULATOR           | VTR   |      | VENT THROUGH ROOF                 |
| GRS     | GRS     | GAS-REGULATOR GAS                |       |      |                                   |
| GWH     | GWH     | GAS FIRED WATER HEATER           |       |      |                                   |
|         |         |                                  | W     |      | WASTE                             |
| H&CW    | H&CW    | HOT AND COLD WATER               | WC    |      | WATER CLOSET                      |
| HOB     | HOB     | HOSE BIBB                        | WCO   |      | WALL CLEANOUT                     |
| HP      | HP      | HORSEPOWER                       | WF    |      | WATER FILLER                      |
| HR      | HR      | HOT-ENTER RECIRCULATION          | WF/CV |      | WATER FLOW/CONTROL VALVE          |
| HD      | HD      | HYDRANT                          | WFM   |      | WATER FLOWMETER                   |
| HZ      | HZ      | HERTZ                            | WG    |      | WATER GAGE                        |
|         |         |                                  | WH    |      | WALL HYDRANT                      |
|         |         |                                  | WH    |      | WATER HEATER                      |
|         |         |                                  | WHA   |      | WATER HAMMER ARRESTER             |
| INC     | INC     | INVERT                           | WL    |      | WATER LINE                        |
| IO      | IO      | INPUT/OUTPUT                     | WM    |      | WATER METER                       |
| INT     | INT     | INTERNAL PLUMBING CODE           | WPD   |      | WATER PRESSURE DROP               |
| IRW     | IRW     | IRRIGATION WATER                 | WST   |      | WASTE STATION                     |
| IW      | IW      | INSTANT WASTE                    | WSU   |      | WATER SUPPLY FIXTURE UNITS        |
| INH     | INH     | INSTANTANEOUS WATER HEATER       |       |      |                                   |
|         |         |                                  | YCO   |      | YARD CLEANOUT                     |
| KW      | KW      | KILOWATT                         | YHD   |      | YARD HYDRANT                      |
| KWH     | KWH     | KILOWATT-HOUR                    |       |      |                                   |

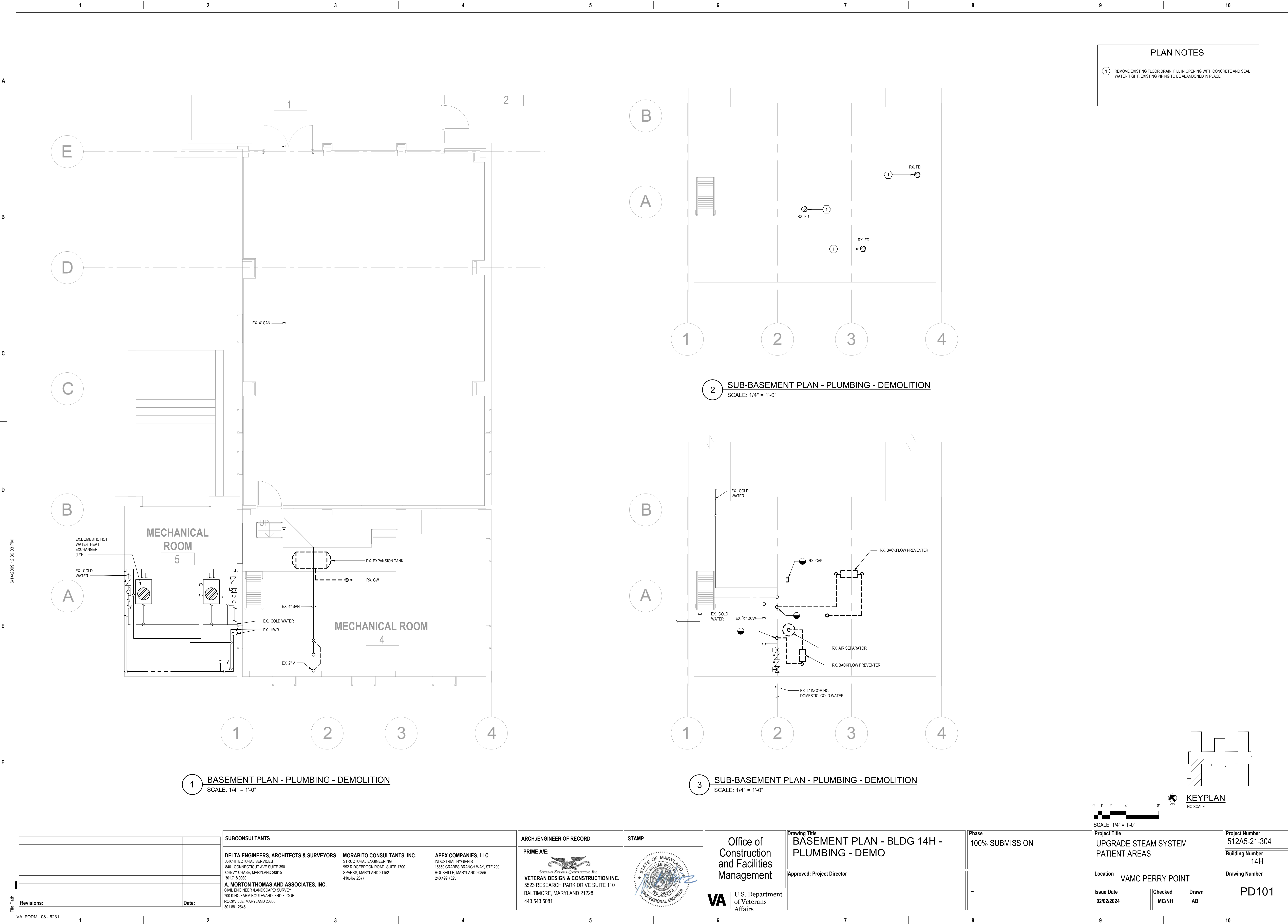
	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
	POINT OF DISCONNECTION BETWEEN EXISTING AND DEMOLITION
	THERMOSTAT
HP	HIGH PRESSURE STEAM (PSIG (kPa))
MPS	MEDIUM PRESSURE STEAM (PSIG (kPa))
LPS	LOW PRESSURE STEAM (PSIG (kPa))
HPC	HIGH PRESSURE CONDENSATE RETURN
MPC	MEDIUM PRESSURE CONDENSATE RETURN
LPC	LOW PRESSURE CONDENSATE RETURN
CPD	CONDENSATE PUMP DISCHARGE
V	VENT
D	DRAIN
CW	COLD WATER (CITY WATER)
CWR	COLD WATER RECIRCULATING
HW	HOT WATER
HWR	HOT WATER RECIRCULATING
SAN	SOIL, WASTE, SANITARY SEWER
SD	STORM WATER
---	PIPING TO BE REMOVED
OFL	OVERFLOW
A	COMPRESSED AIR
G	NATURAL GAS MAIN FUEL

	CONCENTRIC REDUCER
	ECCENTRIC REDUCER
	TOP CONNECTION - 45° OR 90°
	BOTTOM CONNECTION - 45° OR 90°
	SIDE CONNECTION
	ELL TURNED UP
	ELL TURNED DOWN
	CAPPED OUTLET
	RISE OR DROP IN PIPE
	UNION
	PRIMARY ELEMENT FOR FLOW METERING
	DIRECTION OF FLOW
	GATE VALVE - THREADED/FLANGED
	GLOBE VALVE - THREADED/FLANGED
	ANGLE GLOBE VALVE
	CHECK VALVE
	THERMOMETER
	PRESSURE GAUGE
	GATE VALVE IN VERTICAL
	GATE VALVE
	GLOBE VALVE
	BALL VALVE
	CONTROL VALVE
	MODULATING CONTROL VALVE
	TWO POSITION CONTROL VALVE

	THREE-WAY MODULATING CONTROL VALVE
	THREE-WAY TWO POSITION CONTROL VALVE
	CONTROL VALVE (CV) - FLOAT-OPERATED
	GATE VALVE WITH GLOBE-VALVED BYPASS
	PLUG VALVE
	PRESSURE REDUCING VALVE (PRV)
	WYE STRAINER (WITH BALL VALVE & HOSE CONNECTION)
	WYE STRAINER WITH VALVED DRAIN AND QUICK-COUPLE HOSE CONNECTOR
	FLEXIBLE CONNECTION
	BUTTERFLY VALVE
	MODULATING CONTROL BUTTERFLY VALVE
	PRESSURE REGULATING VALVE
	PRESSURE SAFETY VALVE
	AUTOMATIC BALANCING CONTROL VALVE
	WATER BALANCE DEVICE
	CIRCUIT SETTER VALVE
	SAFETY VALVE (SV), RELIEF VALVE (RV), SAFETY RELIEF VALVE (SRV)
	STRAINER
	BASKET STRAINER
	QUICK-COUPLE HOSE CONNECTOR
	INVERTED BUCKET STEAM TRAP ASSEMBLY (T)
	CLOSED-FLOAT-THERMOSTATIC STEAM TRAP ASSEMBLY (T)
	THERMOSTATIC STEAM TRAP (T)
	WATER LEVEL CONTROLLER
	FLOW METER

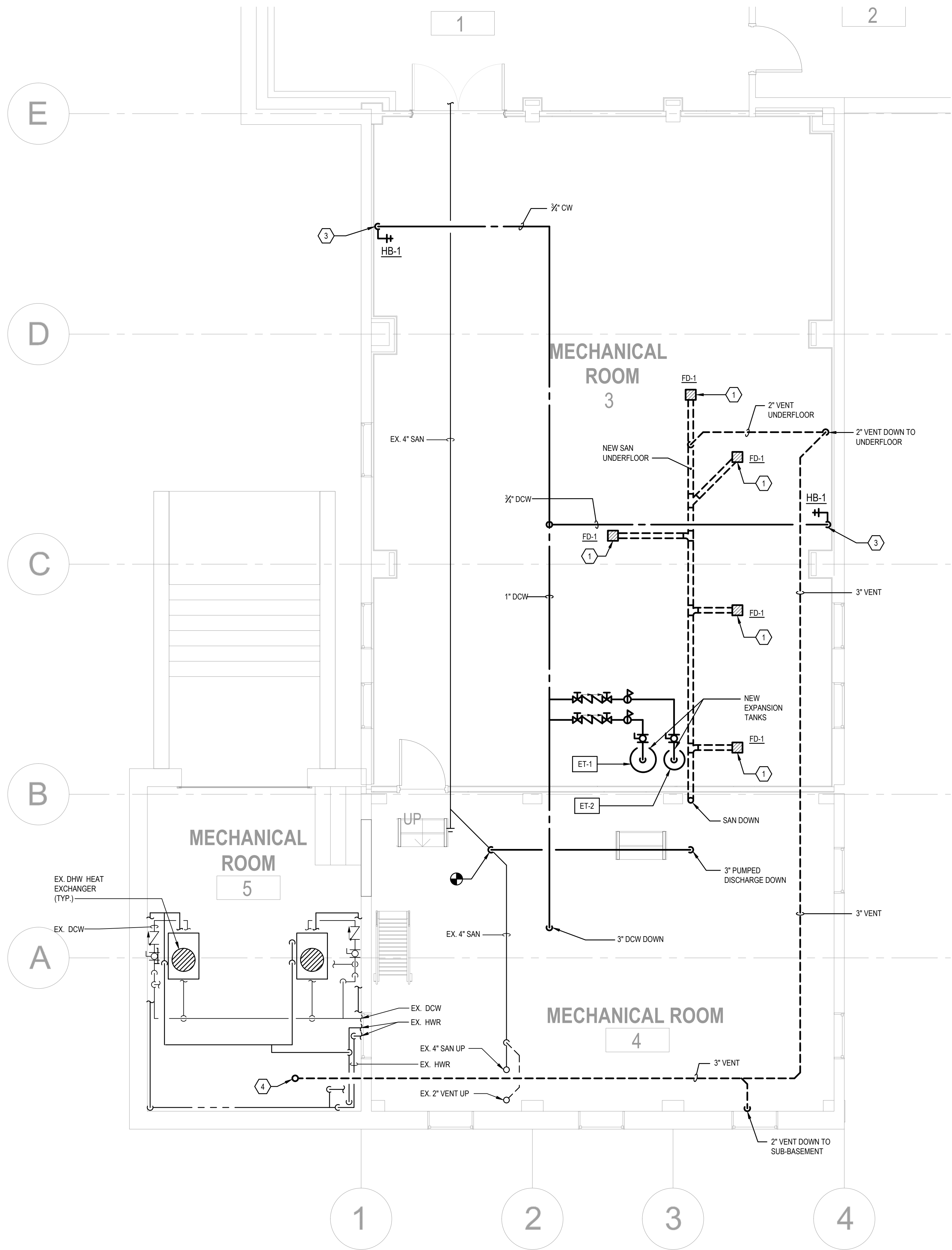
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		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.715.0080  A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER / LANDSCAPE / SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEER 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377		APEX COMPANIES, LLC INDUSTRIAL ENGINEER 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325				PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		PLUMBING SYMBOLS AND ABBREVIATIONS		100% SUBMISSION		UPGRADE STEAM SYSTEM PATIENT AREAS	
										Approved: Project Director				Location		Building Number	
														VAMC PERRY POINT		--	
																Drawing Number	
																P001	
Revisions:		Date:												Issue Date		Checked	
														02/02/2024		MC/NH	
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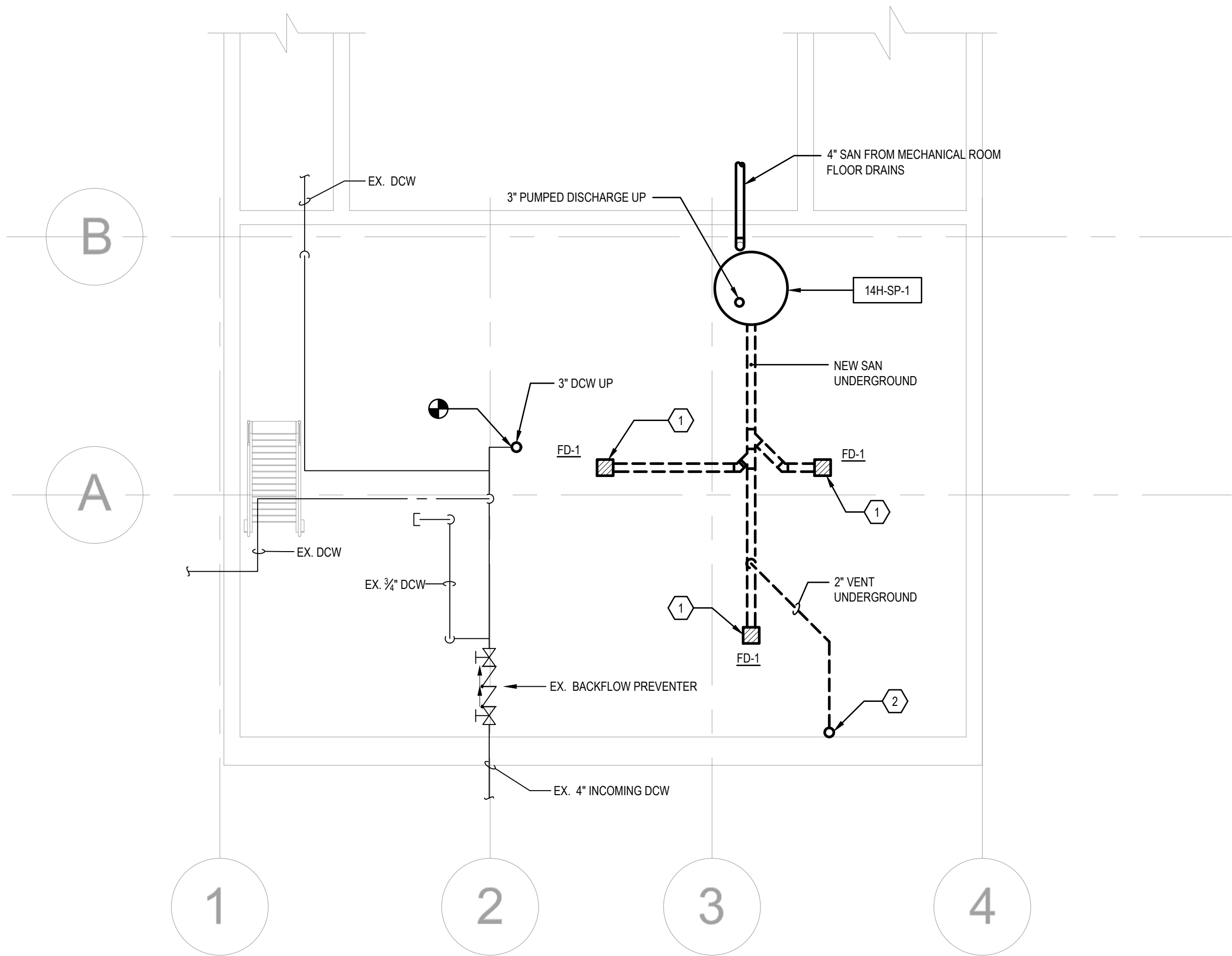




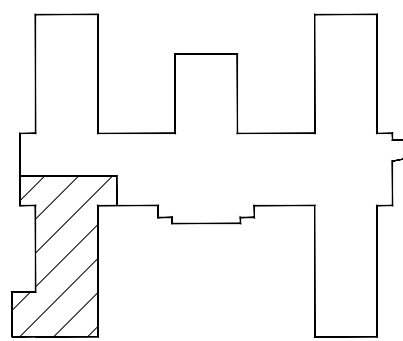
PLAN NOTES	
1	4" SANITARY UP TO FLOOR DRAIN.
2	2" VENT UP.
3	3/4" CW DOWN ALONG WALL TO NEW HOSE BIBB.
4	3" VENT UP THROUGH ROOF.



1 BASEMENT PLAN - PLUMBING - NEW WORK  
SCALE: 1/4" = 1'-0"



2 SUB-BASEMENT PLAN - PLUMBING - NEW WORK  
SCALE: 1/4" = 1'-0"



0' 1' 2' 4' 8'  
SCALE: 1/4" = 1'-0"

Revisions:	Date:

SUBCONSULTANTS		
<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 6401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	<b>MORABITO CONSULTANTS, INC.</b> STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325
<b>A. MORTON THOMAS AND ASSOCIATES, INC.</b> CIVIL ENGINEER (LANDSCAPE) / SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		

ARCH./ENGINEER OF RECORD
<b>PRIME A/E:</b>  <b>VETERAN DESIGN &amp; CONSTRUCTION, INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081



<b>Office of Construction and Facilities Management</b>  <b>VA</b> U.S. Department of Veterans Affairs
--

Drawing Title <b>BASEMENT PLAN - BLDG 14H - PLUMBING - NEW WORK</b>
Approved: Project Director

Phase 100% SUBMISSION
-

Project Title <b>UPGRADE STEAM SYSTEM PATIENT AREAS</b>
Location <b>VAMC PERRY POINT</b>
Issue Date <b>02/02/2024</b>
Checked <b>MC/NH</b>
Drawn <b>AB</b>

Project Number <b>512A5-21-304</b>
Building Number <b>14H</b>
Drawing Number <b>P101</b>



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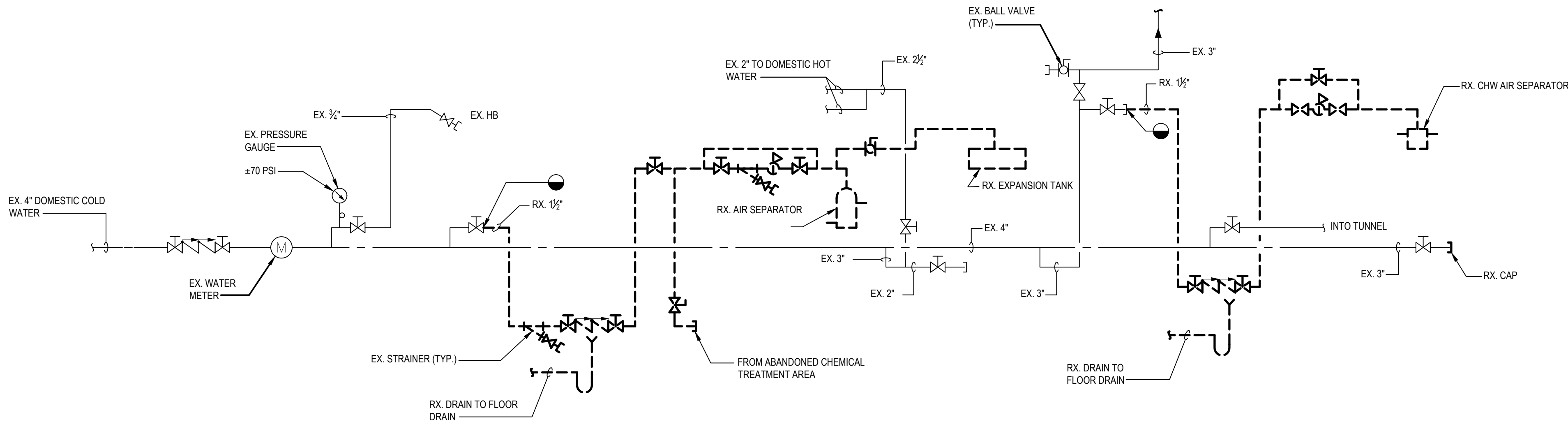
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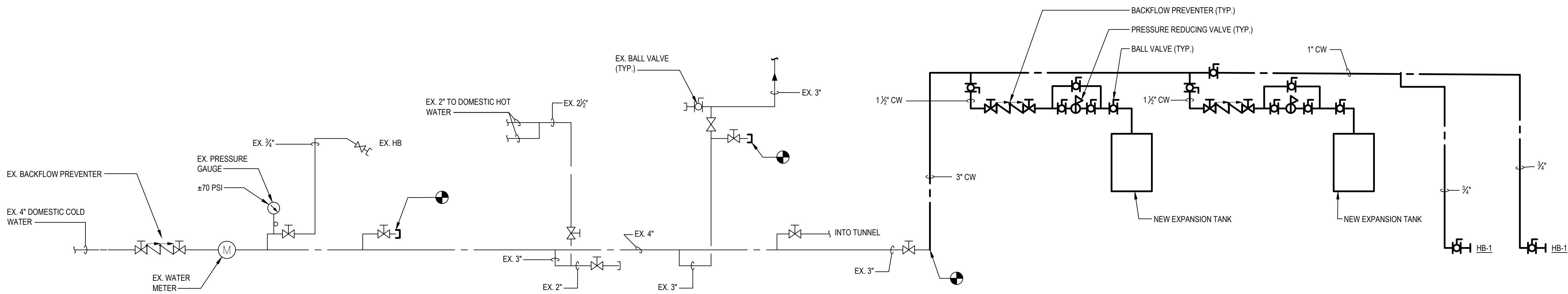
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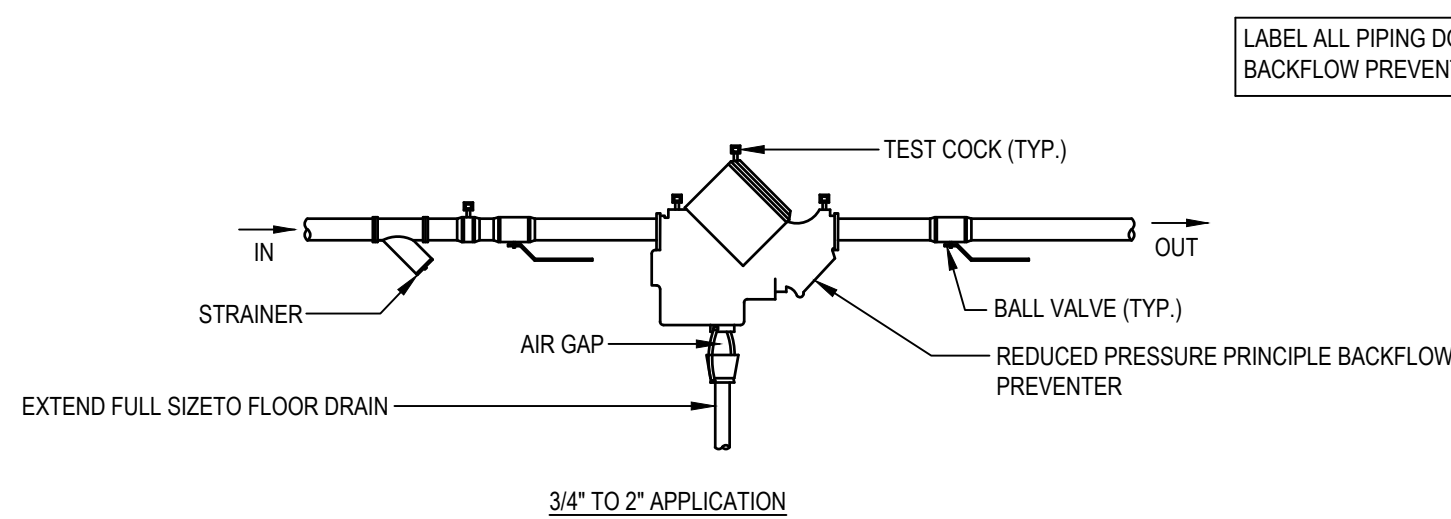
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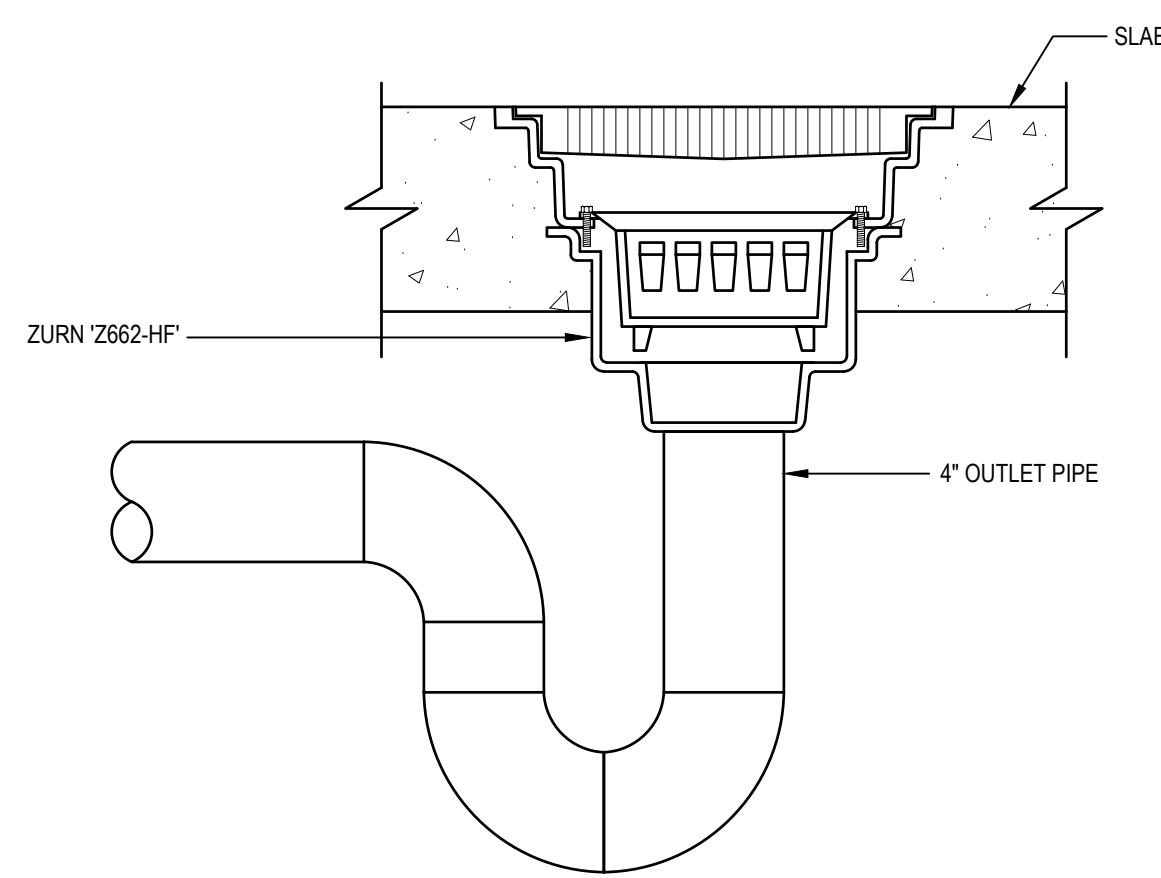
1 EXISTING DOMESTIC WATER SCHEMATIC - DEMO  
NO SCALE



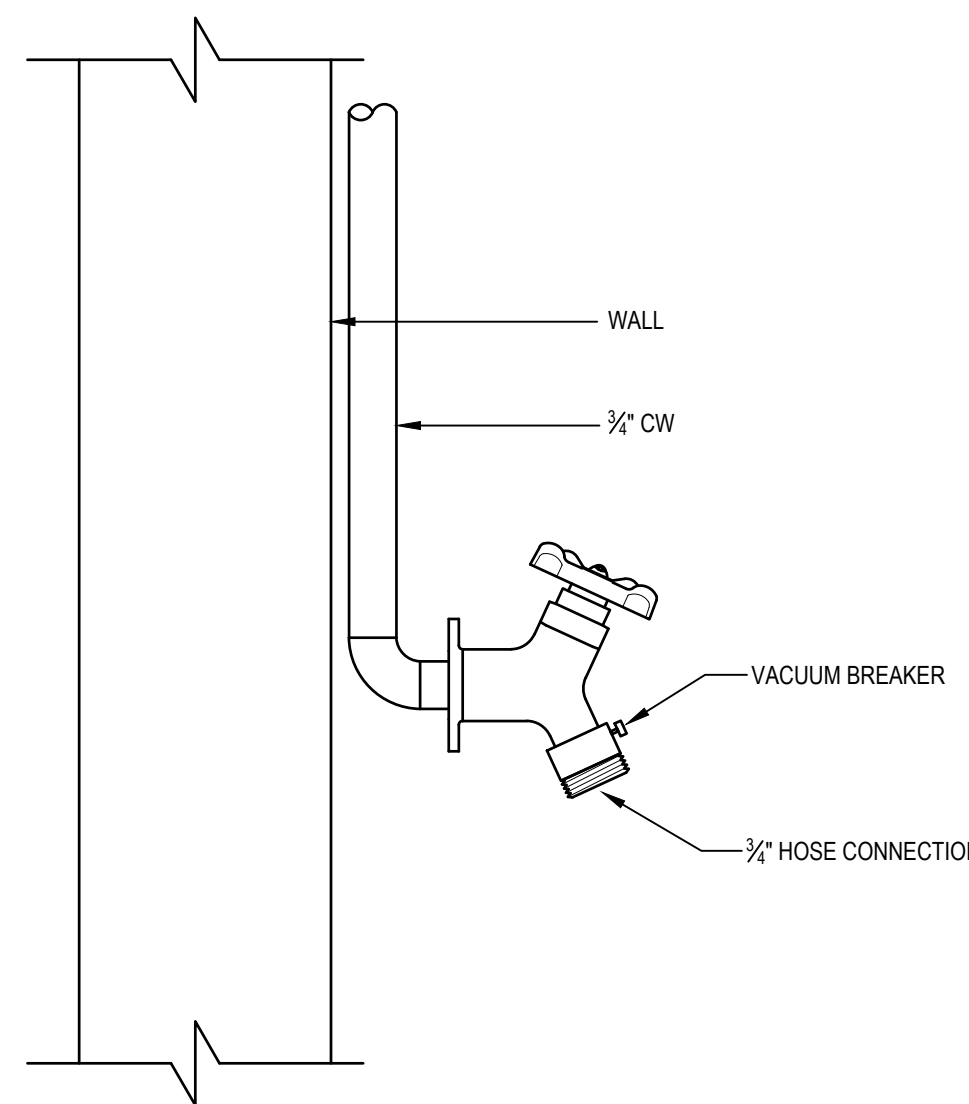
2 EXISTING DOMESTIC WATER SCHEMATIC - NEW WORK  
NO SCALE



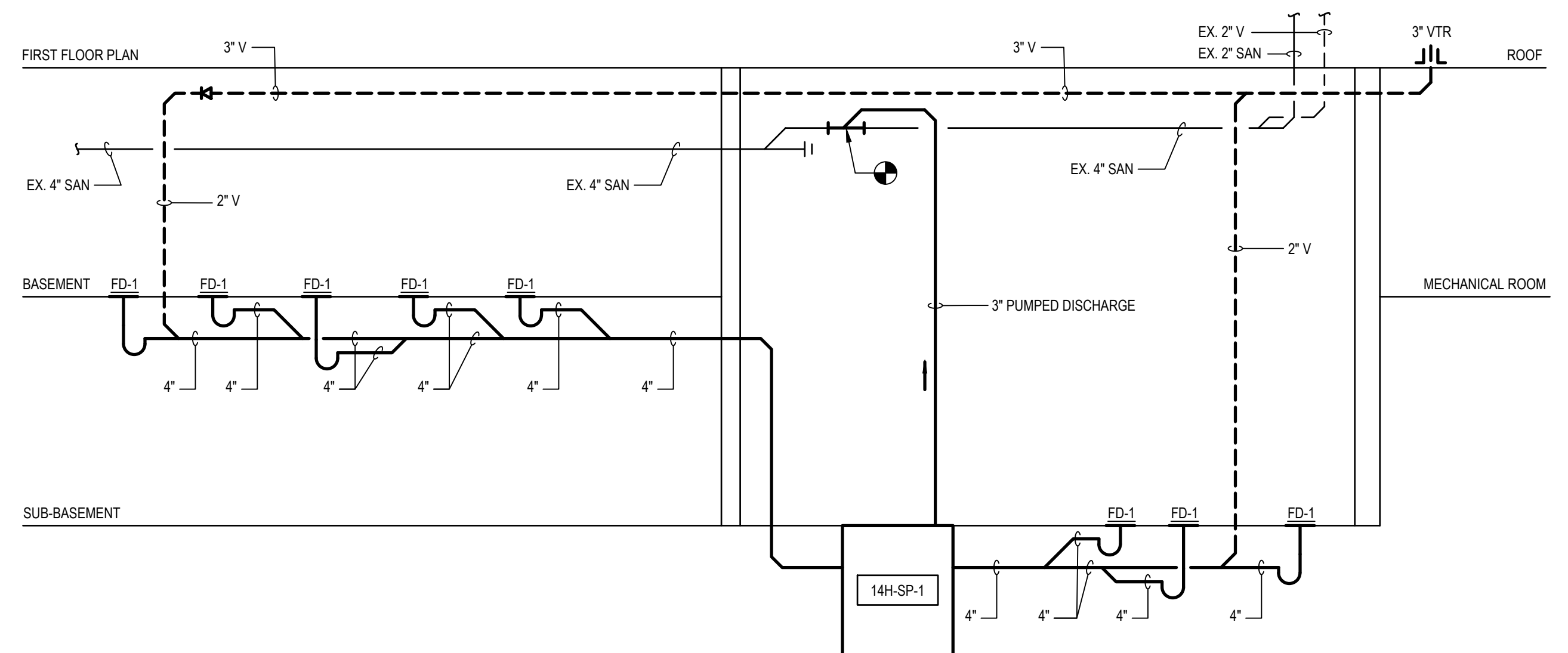
4 REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTERS  
NO SCALE



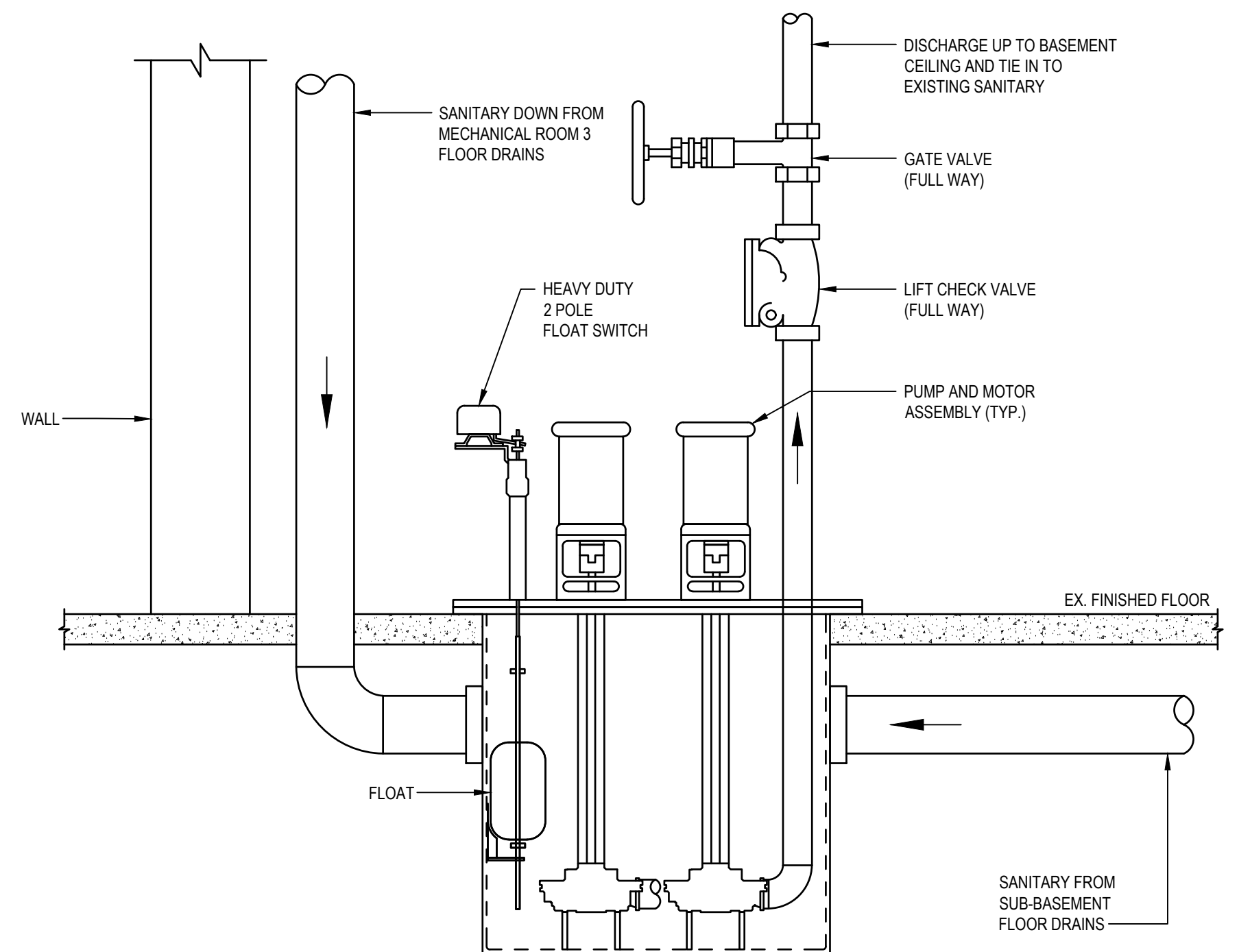
5 FLOOR DRAIN DETAIL  
NO SCALE



6 FREEZE-PROOF HOSE BIBB DETAIL  
NO SCALE



3 SANITARY SCHEMATIC - NEW WORK  
NO SCALE



7 DUPLEX SUMP PUMP DETAIL  
NO SCALE

DRAIN SCHEDULE				
MARK	FIXTURE TYPE	SAN	SPECIFICATIONS	REMARKS
FD-1	FLOOR DRAIN (MECHANICAL ROOM)	4"	ZURN 2662-HF SQUARE TOP HEAVY DUTY DRAIN WITH DURA-COAT CAST IRON BODY AND HIGH FLOW DUCTILE IRON GRATE.	-

SUMP PUMP SCHEDULE											
MARK	SERVICE	QTY	GPM	RPM	FT / HD	HP	V-P-H	FLANGE		MANUFACTURER & MODEL NO.	REMARKS
								SUCT.	DISC.		
MSP-1	MANHOLE SUMP PUMP	2	20	1750	20	1/3	120-1-60	-	2"	BELL & GOSSET 2ECHT0311P1	1-4
14H-SP-1	14H SUB-BASEMENT	1	15	3500	35	1/2	120-1-60	-	1.5"	DOMESTIC PUMP MODEL 151.5CU	5-8
REMARKS: 1. PORTABLE, PLUG-IN PUMP FOR MANHOLES. 2. HIGH TEMPERATURE SUBMERSIBLE SUMP PUMP, TEMPERATURE RATING OF 180 DEG F. 3. PROVIDE AUTOMATIC FLOAT. 4. CAST IRON IMPELLER AND CASING, STAINLESS STEEL SHAFT AND FASTENERS 5. DUPLEX PUMP SET WITH 24" DIAM X 36" DEEP BASIN. 6. RATED FOR 200 DEG F CONDENSATE, HEAVY DUTY 2-POLE FLOAT SWITCH. 7. EPOXY COATED STEEL RECEIVER 8. PROVIDE WALL MOUNTED ELECTRIC CONTROL CABINET.											

PLUMBING FIXTURE SCHEDULE								REMARKS
MARK	DESCRIPTION	MANUFACTURER AND MODEL NO.	CW	HW	SAN	VENT		
HB-1	HOSE BIBB	ZURN Z1341	3/4"	-	-	-	-	3/4" WALL FAUCET, ANTI-SIPHON WITH ATMOSPHERIC VENT AND EXTERNAL VACUUM BREAKER.



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FIRE SUPPRESSION SYSTEM PROJECT NOTES:

1. MODIFY THE EXISTING WET-PIPE FIRE SPRINKLER SYSTEM TO ACCOMMODATE THE PLANNED RENOVATIONS ON THE BASEMENT LEVEL IN BUILDING 14H LOCATED AT THE PERRY POINT MD VETERANS AFFAIRS (VA) MEDICAL CENTER. UNO, EXISTING SPRINKLERS, PIPING, AND BACKFLOW PREVENTER ARE EXISTING TO REMAIN.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK REQUIRED TO PROVIDE A FULLY FUNCTIONAL, CODE COMPLIANT, AND ARCHITECTURALLY PLEASING SYSTEM.

3. PROVIDE ALL NECESSARY MATERIALS AND LABOR TO FURNISH AND INSTALL THE SYSTEM AS DESCRIBED IN THE PROJECT SPECIFICATIONS AND CONTRACT DRAWINGS.

4. PIPE AND EQUIPMENT SIZES AND LOCATIONS SHOWN ARE FOR REFERENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR ALL DETAILED HYDRAULIC CALCULATIONS, SIZING, AND LOCATION OF ALL PIPING, EQUIPMENT LAYOUT, ETC.

5. ALL REFERENCE TO THE AUTHORITY HAVING JURISDICTION (AHJ) SHALL MEAN THE DEPARTMENT OF VA REGIONAL FIRE PROTECTION ENGINEER.

6. ALL REFERENCE TO THE ENGINEER SHALL MEAN KOFFEL ASSOCIATES, INC.

7. ALL REFERENCE TO THE OWNER SHALL MEAN THE DEPARTMENT OF VETERANS AFFAIRS (THE VA).

8. INSTALLATION OF THE FIRE SPRINKLER SYSTEM AND ASSOCIATED COMPONENTS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
  - VA FIRE PROTECTION DESIGN MANUAL (VAFPM) - EIGHTH EDITION, JUNE 2021
  - NFPA 1018, LIFE SAFETY CODE® (LSC) - 2021 EDITION
  - NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS - 2022 EDITION
  - NFPA 25, STANDARD FOR THE INSPECTION, TESTING, AND MAINTENANCE OF WATER-BASED FIRE PROTECTION SYSTEMS - 2023 EDITION
  - NFPA 70, NATIONAL ELECTRICAL CODE - 2023 EDITION
  - NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE - 2022 EDITION
  - INTERNATIONAL BUILDING CODE (IBC) - 2021 EDITION
  - APPLICABLE LOCAL AND STATE CODES AND REGULATIONS
  - THE MANUFACTURER'S REQUIREMENTS

9. THE FOLLOWING DESIGN CRITERIA APPLIES:
  - ORDINARY HAZARD GROUP 1 (OH1): 0.15 GPM/SQ FT OVER 1,500 SQ FT

PER SECTION 19.2.3.2.1 OF NFPA 13, A REDUCTION IN THE DESIGN AREA UP TO 40% IS PERMITTED WHERE LISTED QUICK-RESPONSE SPRINKLERS ARE UTILIZED AND CEILING HEIGHT IS LESS THAN 20 FEET.

PER VA BASE SPECIFICATIONS, MECHANICAL ROOMS ARE CONSIDERED TO BE OH1 OCCUPANCIES. SPRINKLER SPACING SHALL BE IN ACCORDANCE WITH NFPA 13 REQUIREMENTS.

10. THE FOLLOWING HYDRANT FLOW TEST RESULTS:

STATIC PRESSURE:	66 PSI
RESIDUAL PRESSURE:	36 PSI
FLOW:	667 GPM
LOCATION:	HYDRANT 39, REAR OF BLDG 14H AND HYDRANT 40, REAR OF BLDG 13H.
DATE OF TEST:	2/23/06/10
SOURCE:	PERRY POINT FIRE DEPARTMENT

CONTRACTOR SHALL PROVIDE HYDRANT FLOW TEST DATA NO MORE THAN ONE YEAR OLD FOR ALL HYDRAULIC CALCULATIONS. CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER OF ANY DECREASE IN WATER SUPPLY THAT MAY IMPACT THE PROJECT WITHIN 10 BUSINESS DAYS OF CONTRACTOR RECEIPT OF CURRENT FLOW TEST DATA. CONTRACTOR MAY BE REQUIRED TO PERFORM AN ADDITIONAL HYDRANT FLOW TEST.

11. ALL WORK SHALL BE COORDINATED WITH ALL OTHER TRADES, INCLUDING COORDINATION WITH STRUCTURAL LIMITATIONS.

12. SPRINKLER SYSTEM MODIFICATIONS SHALL BE SIZED USING HYDRAULIC CALCULATIONS. PERFORM HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13 UTILIZING THE AREADENSITY METHOD, AS MODIFIED BY THE VAFPM AND SPECIFICATIONS.

13. ALL HYDRAULIC CALCULATIONS SHALL YIELD AT LEAST A 10 PERCENT SAFETY FACTOR FOR EACH SPRINKLER DESIGN AREA, INCLUDING REQUIRED HOSE STREAMS, PER SECTION 6.1.D OF THE VAFPM.

14. EXISTING 6" INCOMING IS LOCATED IN THE EMPLOYEE EDUCATION TRAINING ROOM 10.

15. ALL NEW MATERIALS SHALL BE LISTED BY UNDERWRITERS LABORATORIES, INC. (U.L.) FOR USE ON COMMERCIAL FIRE PROTECTION SYSTEMS. UNO, SPRINKLERS SHALL ALSO BE FACTORY MUTUAL (FM) APPROVED, PER SECTION 6.1.K OF THE VAFPM.

16. SPRINKLER TYPES SHALL BE AS DESCRIBED IN THE DESIGN DRAWINGS AND PROJECT SPECIFICATIONS. THE TYPE AND FINISH OF SPRINKLERS IN AREAS WITH AND WITHOUT FINISHED CEILINGS SHALL MATCH EXISTING.

17. NEW SPRINKLERS IN AREAS WITH FINISHED CEILINGS SHALL BE LOCATED IN SUSPENDED CEILING TILES AS INDICATED ON THE DESIGN DRAWINGS. ARMOVERS AND DROPS TO INDIVIDUAL SPRINKLERS SHALL BE FIELD CUT TO ENSURE PROPER SPRINKLER PLACEMENT.

18. NEW SPRINKLER PIPE SHALL MEET THE FOLLOWING CRITERIA:
  - PIPE SIZES 2" AND SMALLER, SCHEDULE 40, BLACK STEEL, MEETING ASTM A53 (TYPE E GRADE B) OR A795 (TYPE E GRADE A) SPECIFICATIONS, CONNECTED WITH THREADED FITTINGS.
  - PIPE SIZES 2 1/2" AND LARGER, SCHEDULE 10, BLACK STEEL, MEETING ASTM A135 OR A795 TYPE E GRADE A SPECIFICATIONS, CONNECTED WITH LISTED GROOVED COUPLINGS.

19. NEW PIPE FITTINGS SHALL INCLUDE:
  - THREADED FITTINGS FOR SCHEDULE 40 PIPE SHALL CONFORM TO SECTION 6.4 OF NFPA 13.
  - ROLL GROOVED FITTINGS FOR SCHEDULE 10 PIPE SHALL BE UL LISTED. COUPLINGS SHALL COMPLY WITH ASTM A536, AND A183 SPECIFICATIONS WITH GRADE E, TYPE A GASKETS. ALL COMPONENTS SHALL BE FROM A SINGLE MANUFACTURER.

20. ALL NECESSARY CONNECTIONS TO THE FIRE ALARM SYSTEM SHALL BE MADE BY AND COORDINATED WITH THE FIRE ALARM CONTRACTOR. SYSTEM ACCEPTANCE TESTS SHALL BE COORDINATED WITH THE FIRE ALARM CONTRACTOR AND WITNESSED BY THE OWNER.

21. ALL HANGERS SHALL BE U.L. LISTED FOR USE WITH FIRE SPRINKLER SYSTEMS. HANGER INSTALLATION AND SPACING SHALL BE IN ACCORDANCE WITH NFPA 13. SEISMIC BRACING OF ALL PIPING AND EQUIPMENT SHALL BE PROVIDED.

22. ALL SPRINKLER SYSTEM PIPING AND HANGERS SHALL BE CONCEALED WHEREVER POSSIBLE. PROVIDE ACCESS PANELS FOR ALL VALVES, WHERE REQUIRED.

23. NEW FIRE SPRINKLER PIPE PENETRATIONS OF FIRE-RATED ASSEMBLIES SHALL BE SEALED WITH A U.L. CERTIFIED THROUGH-PENETRATION SYSTEM APPROPRIATE FOR THE MATERIALS INVOLVED AND THE RATINGS OF THE WALL PENETRATED. REFER TO ARCHITECTURAL DRAWINGS FOR WALL RATINGS.

24. ALL CONTRACTORS PREPARING BIDS FOR THE PROJECT ARE EXPECTED TO VISIT THE SITE PRIOR TO SUBMITTING BIDS.

25. CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPMENT OF HYDRAULIC CALCULATIONS, SHOP DRAWINGS, PERMIT FEES, APPROVAL OF SHOP DRAWINGS, AND ACCEPTANCE OF THE SYSTEM BY THE AHJ.

26. PRIOR TO SUBMITTING AN APPLICATION FOR SPRINKLER PERMIT TO THE AHJ, PROVIDE TWO COPIES OF ALL SHOP DRAWINGS, HYDRAULIC CALCULATIONS, AND PRODUCT DATA SHEETS TO THE OWNER FOR REVIEW AND COMMENT. PERMIT APPLICATION SHALL NOT BE MADE UNTIL SUCH TIME THAT THE ENGINEER HAS COMPLETED A REVIEW OF THE SHOP DRAWING PACKAGE.

27. UPON COMPLETION OF WORK, TESTING SHALL BE PERFORMED IN ACCORDANCE WITH NFPA 13 AND NFPA 25 REQUIREMENTS. THE NEW ZONE OF THE SYSTEM SHALL BE ISOLATED AND TESTED AT NOT LESS THAN 200 PSI, OR 50 PSI IN EXCESS OF SYSTEM WORKING PRESSURE (WHICHEVER IS GREATER), FOR TWO HOURS. ALL TESTING SHALL BE WITNESSED BY THE AHJ AND THE OWNER'S DESIGNATED REPRESENTATIVE.

28. THE SPRINKLER LAYOUT MUST BE AESTHETICALLY ACCEPTABLE TO THE ARCHITECT.

29. SPRINKLER AND PIPE LOCATIONS MUST BE FULLY COORDINATED WITH ARCHITECTURAL FEATURES AND THE WORK OF OTHER TRADES PRIOR TO DEVELOPMENT AND SUBMISSION OF SHOP DRAWINGS. SHOP DRAWINGS MUST BE DEVELOPED USING AUTOCAD OR THEY WILL BE REJECTED WITHOUT REVIEW.

30. PROVIDE AN AUTOMATIC AIR VENT AT THE HIGH POINT OF THE SPRINKLER PIPING INSTALLED IN PROJECT AREA. THE AIR VENT SHALL NOT REQUIRE MANUAL DRAINING OF WATER.

31. DRAIN LOCATIONS ARE NOT INDICATED ON DRAWINGS. CONTRACTOR SHALL PROVIDE ALL DRAINS AS REQUIRED BY NFPA 13 AND THE VAFPM. DRAINS SHALL BE PIPED TO THE EXTERIOR. CONTRACTOR SHALL PROVIDE AUXILIARY DRAINS AT ALL SYSTEM LOW POINTS AND AT ALL TRAPPED SECTIONS OF PIPING. NOTE THAT PIPING MAY NEED TO BE ROUTED UNDER DUCT WORK AND OTHER OBSTRUCTIONS.

32. UNO, ALL PORTIONS OF THE AREA OF WORK SHALL BE ASSUMED TO BE PROVIDED WITH A MINIMUM AMBIENT TEMPERATURE OF 40 DEGREES FAHRENHEIT. UNO, ALL PORTIONS OF THE AREA OF WORK SHALL BE ASSUMED TO BE FREE OF EXCESSIVE DUST PARTICLES OR HUMIDITY LEVELS.
- FIRE SUPPRESSION SYSTEM SYMBOLS
- |  |   |  |   |  |   |  |  |
|--|---|--|---|--|---|--|--|
|  | NEW SYSTEM PIPING                                   |  | CONCENTRIC REDUCER                                |  | PRESSURE RELIEF VALVE   |  | DRY-TYPE PENDENT SPRINKLER   |
|  | EXISTING PIPING TO REMAIN                           |  | ECCENTRIC REDUCER                                 |  | PRESSURE GAUGE  |  | UPRIGHT SPRINKLER;<br>ON SPRIG   |
|  | DEMO EXISTING PIPING                                |  | FLUSHING CONNECTION OR CAP                        |  | ALARM CHECK VALVE   |  | PENDENT SPRINKLER;<br>ON DROP NIPPLE (SUBSCRIPTS AS FOLLOWS:<br>IT - INTERMEDIATE TEMPERATURE<br>HT - HIGH TEMPERATURE<br>C - CONCEALED) |
|  | POINT OF CONNECTION                                 |  | CONTROL VALVE                                     |  | DRY PIPE VALVE  |  | UPRIGHT SPRINKLER WITH PROTECTIVE CAGE   |
|  | MECHANICAL COUPLING                                 |  | ANGLE VALVE                                       |  | DRY PIPE VALVE WITH QUICK OPENING DEVICE                          |  | OPEN SPRINKLER/DISCHARGE NOZZLE  |
|  | PIPE HANGER   |  | CHECK VALVE                                       |  | DELUGE VALVE  |  | WATER SPRAY NOZZLE   |
|  | LATERAL BRACE; TWO WAY                              |  | OS&Y GATE VALVE                                   |  | PRE-ACTION VALVE  |  | WINDOW SPRINKLER   |
|  | LATERAL BRACE; FOUR WAY                             |  | BUTTERFLY VALVE                                   |  | FIRE HYDRANT  |  | HYDRAULIC REFERENCE NODE   |
|  | SYSTEM RISER  |  | NON-INDICATING CONTROL VALVE                      |  | FIRE DEPARTMENT CONNECTION  |  | HEIGHT INDICATOR   |
|  | DRAIN RISER   |  | BACKFLOW PREVENTER;<br>DOUBLE CHECK TYPE          |  | FIRE DEPARTMENT CONNECTION;<br>STORZ TYPE                         |  | NON-SPRINKLERED AREA   |
|  | HOSE VALVE  |  | BACKFLOW PREVENTER;<br>REDUCED PRESSURE ZONE TYPE |  | VALVE IN PIT  |  | FULLY SPRINKLERED AREA   |
|  | HOSE REEL STATION                                   |  | POST-INDICATING VALVE                             |  | SOLENOID VALVE  |  | PARTIALLY SPRINKLERED AREA   |
|  | AGENT STORAGE CONTAINER<br>(XX DENOTES SYSTEM TYPE) |  | KEY OPERATED VALVE                                |  | DRY SIDEWALL SPRINKLER  |  | AREA NOT IN CURRENT PHASE  |
|  | PIPE ELBOW DOWN                                     |  | ZONE CONTROL ASSEMBLY                             |  | SIDEWALL SPRINKLER  |  | CALCULATED REMOTE AREA   |
|  | PIPE TEE DOWN                                       |  | PRESSURE REGULATING VALVE                         |  | UPRIGHT SPRINKLER<br>(SUBSCRIPT DENOTES INTERMEDIATE TEMPERATURE) |  | SPRINKLER ZONE BOUNDARY  |
|  |   |  |   |  |   |  | CONSTRUCTION PHASE DELINEATION   |
- FIRE SUPPRESSION ABBREVIATIONS
- |      |                           |      |                                |      |                               |     |                                   |
|------|---------------------------|------|--------------------------------|------|-------------------------------|-----|-----------------------------------|
| ABD  | AUTOMATIC BALL DRIP       | CPVC | CHLORINATED POLYVINYL CHLORIDE | FPC  | FIRE PUMP CONTROLLER          | PL  | PLASTER (CEILING)                 |
| ACT  | ACOUSTICAL CEILING TILE   | DCH  | DRY CHEMICAL                   | GALV | GALVANIZED                    | PMO | FIRE PUMP CONTROLLER - MANUAL OFF |
| AFF  | ABOVE FINISHED FLOOR      | DL   | DUCTILE IRON                   | GYP  | GYPSUM WALL BOARD (SHEETROCK) | POC | POINT OF CONNECTION               |
| AFFF | AQUEOUS FILM FORMING FOAM | DI   | DELUGE                         | HL   | HALON SYSTEM                  | PR  | FIRE PUMP RUN                     |
| AS   | AUTOMATIC SPRINKLER       | DN   | DOWN                           | HT   | HIGH TEMPERATURE (SPRINKLER)  | PRV | PRESSURE REGULATING VALVE         |
| ASC  | AGENT STORAGE CONTAINER   | DP   | DRY PENDENT (SPRINKLER)        | ITC  | INSPECTOR'S TEST CONNECTION   | QR  | QUICK RESPONSE (SPRINKLER)        |
| ATR  | ALL THREAD ROD            | DS   | DRY SIDEWALL (SPRINKLER)       | JP   | JOCKEY PUMP                   | RX  | REMOVE EXISTING DEVICE            |
| BFP  | BACKFLOW PREVENTER        | EC   | EXTENDED COVERAGE (SPRINKLER)  | JPC  | JOCKEY PUMP CONTROLLER        | SCH | SCHEDULE                          |
| BOB  | BOTTOM OF BEAM            | ETR  | EXISTING TO REMAIN             | MAX  | MAXIMUM                       | SPL | HIDDEN SPLINE (CEILING)           |
| CA   | CLEAN AGENT               | EXP  | EXPOSED (NO CEILING)           | MIN  | MINIMUM                       | STL | STEEL                             |
| CB   | CONCRETE BEAM             | FD   | FLOOR DRAIN                    | MT   | METAL TILE                    | T&G | TONGUE AND GROOVE                 |
| CI   | CAST IRON                 | FDC  | FIRE DEPARTMENT CONNECTION     | NIC  | NOT IN CONTRACT               | TYP | TYPICAL                           |
| CO2  | CARBON DIOXIDE            | FHV  | FIRE HOSE VALVE                | NS   | NON-SPRINKLERED               | UNO | UNLESS NOTED OTHERWISE            |
| COL  | COLUMN                    | FO   | FOAM                           | NTS  | NOT TO SCALE                  | WC  | WET CHEMICAL SYSTEM               |
| CONC | CONCRETE                  | FP   | FIRE PUMP                      | PF   | FIRE PUMP POWER FAIL          | WM  | WATER MIST SYSTEM                 |
|      |                           |      |                                | PH   | FIRE PUMP PHASE REVERSAL      |     |                                   |
- NFPA 13 SPRINKLER HAZARD CLASSIFICATIONS
- NONE

OH-1

OH-2

LIGHT HAZARD

ORDINARY HAZARD GROUP 1

ORDINARY HAZARD GROUP 2
- LIFE SAFETY SYMBOLS
- 2 HOUR FIRE BARRIER

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1 HOUR FIRE BARRIER

.....


1 HOUR SMOKE BARRIER
- I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED ENGINEER UNDER THE LAWS OF THE STATE OF MARYLAND. LICENSE NUMBER 25968, EXPIRATION DATE 02/23/2025.
- ARCH./ENGINEER OF RECORD
- STAMP
- PRIME A/E:
- VETERAN DESIGN & CONSTRUCTION INC.**  
5523 RESEARCH PARK DRIVE SUITE 110  
BALTIMORE, MARYLAND 21228  
443.543.5081
- 
- Office of  
Construction  
and Facilities  
Management
- 
- Drawing Title  
FIRE SUPPRESSION  
PROJECT NOTES, SYMBOLS, AND ABBREVIATIONS
- Approved: Project Director
- Phase  
100% SUBMISSION
- 
- Project Title  
UPGRADE STEAM SYSTEM  
PATIENT AREAS
- Location  
VAMC PERRY POINT
- Issue Date  
02/02/2024
- Checked  
JAH/CPA
- Drawn  
KLC
- Project Number  
512A5-21-304
- Building Number
- Drawing Number
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| Revisions: | Date: |
- VA FORM 08 - 6231

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

File Path



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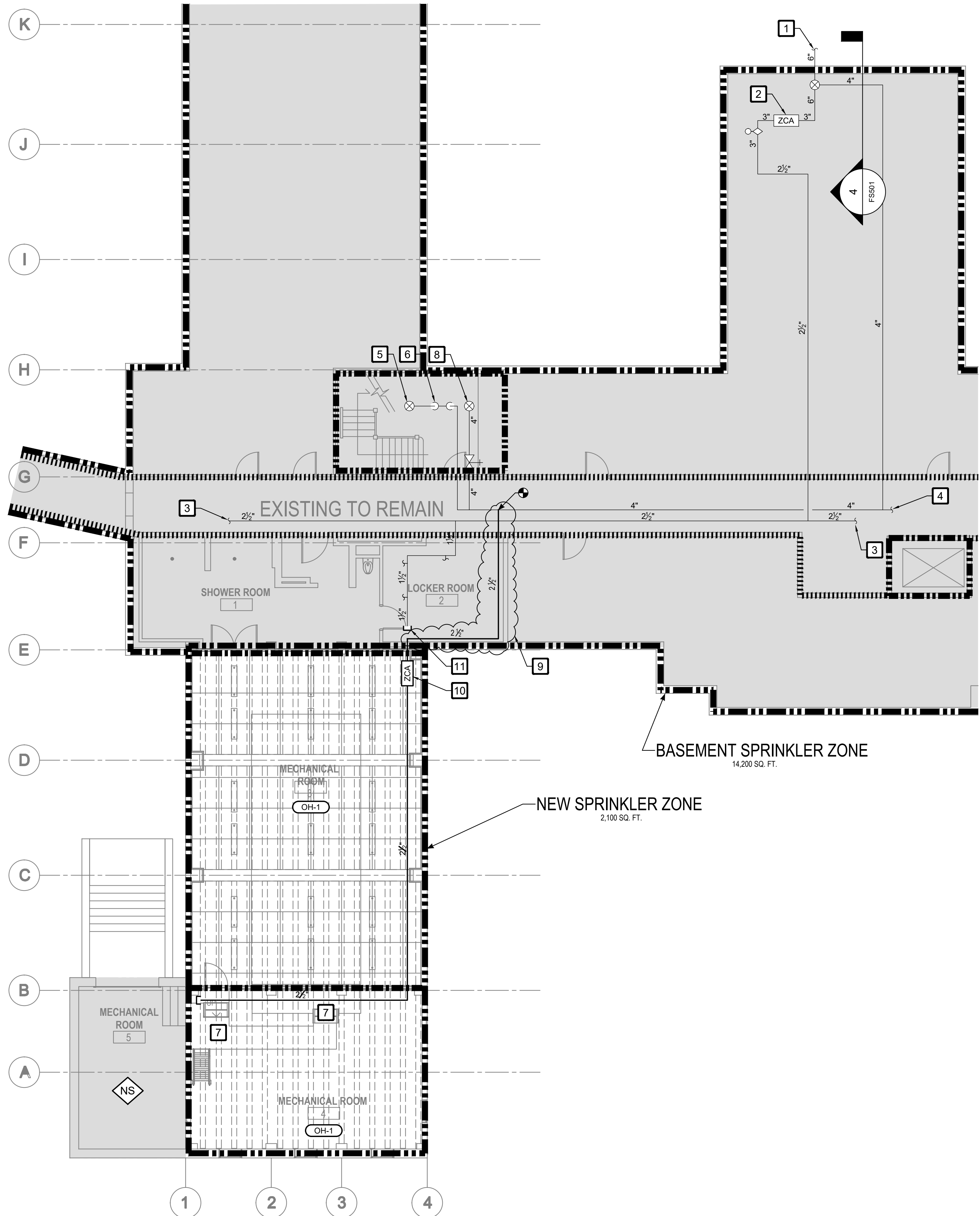
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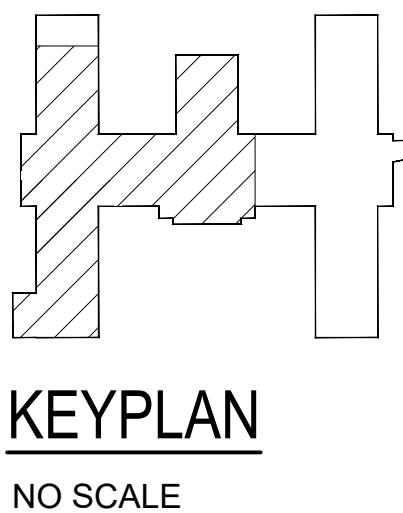
- GENERAL NOTES**
1. MODIFY THE EXISTING SPRINKLER SYSTEM INSIDE AND OUTSIDE THE AREA OF WORK TO ACCOMMODATE THE PLANNED RENOVATIONS. DEMOLISHED PIPING MUST BE REPLACED WITH NEW AS SHOWN TO SUPPORT THE WORK ON THE RENOVATION AND TO ENSURE CONTINUED SPRINKLER PROTECTION OUTSIDE THE AREA OF WORK. EXISTING SPRINKLER ZONING SHALL BE MAINTAINED.
  2. HYDRAULIC CALCULATIONS SHALL BE UTILIZED TO SIZE PIPE FOR ALL NEW WORK.
  3. SPRINKLER, PIPING, AND EQUIPMENT ARE SHOWN FOR REFERENCE AND SHALL BE VERIFIED BY THE INSTALLING CONTRACTOR. NOT ALL SPRINKLERS, PIPING, AND EQUIPMENT ARE SHOWN ON THIS DRAWING. PROVIDE NEW AND COMPLETE WET-PIPE SPRINKLER COVERAGE THROUGHOUT AREA OF WORK.
  4. ALL EXISTING SPRINKLERS, PIPING, AND EQUIPMENT SHALL BE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
  5. ENSURE THAT ACTIVE SPRINKLER PROTECTION IS MAINTAINED THROUGHOUT CONSTRUCTION. COORDINATE ALL TEMPORARY OUTAGES WITH THE OWNER.
  6. COORDINATE INSTALLATION AND DEMOLITION OF SPRINKLERS, HANGARS, PIPING, ETC. WITH ALL OTHER TRADES AND BUILDING OBSTRUCTIONS.
  7. ALL PORTIONS OF AREA OF WORK ARE LIGHT HAZARD UNLESS NOTED OTHERWISE.
  8. CONTRACTOR IS RESPONSIBLE FOR PATCH, REPAIR, AND REPLACEMENT FOR THE EXISTING WALL AND CEILING IMPACTED BY THIS PROJECT. SEE ARCHITECTURAL DOCUMENTS FOR MORE INFORMATION. PATCH, REPAIR AND REPLACEMENT MATERIALS AND METHODOLOGY MUST BE APPROVED BY THE OWNER.
  9. CONNECTIONS AND PIPING ARE REQUIRED ABOVE THE CEILING OUTSIDE THE AREA OF WORK AS SHOWN ON THIS DRAWING. THE NEW CONNECTION TO THE 4 INCH MAIN IN THE CORRIDOR WILL REQUIRE A TEMPORARY COORDINATED OUTAGE.

- SHEET KEY NOTES**
1. EXISTING TO REMAIN 6-INCH INCOMING WATER SUPPLY.
  2. EXISTING TO REMAIN 3-INCH ZONE CONTROL ASSEMBLY FOR THE BASEMENT FLOOR.
  3. SPRINKLER PIPING SUPPLYING BASEMENT ZONE SYSTEM.
  4. SPRINKLER PIPING SUPPLYING COMBINATION SPRINKLER/STANDPIPE SYSTEM.
  5. SPRINKLER PIPE UP TO FIRST FLOOR.
  6. EXISTING TO REMAIN 4-INCH ZONE CONTROL ASSEMBLY.
  7. PROVIDE SPRINKLER PROTECTION UNDER CATWALKS GREATER THAN 4 FEET IN WIDTH. IN ACCORDANCE WITH NFPA 13 SPRINKLER OBSTRUCTION REQUIREMENTS. PROVIDE WATER SHIELDS FOR SPRINKLERS UNDER CATWALKS.
  8. EXISTING TO REMAIN STANDPIPE RISER.
  9. PROVIDE PIPING AND CONNECTION AS SHOWN ABOVE CEILING.
  10. NEW 2 1/2-INCH ZONE CONTROL ASSEMBLY FOR MECHANICAL ROOMS.
  11. PROVIDE NEW CAP TO THE END OF DEMOLISHED PIPE.

**1 FIRE SUPPRESSION PLAN - NEW WORK**  
Scale: 1/8" = 1'-0"

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AND THAT I AM A DULY LICENSED  
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STATE OF MARYLAND, LICENSE NUMBER  
25968, EXPIRATION DATE 02/23/2025.


0' 2' 4' 8' 16'  
SCALE: 1/8" = 1'-0"



Revisions:	Date:

SUBCONSULTANTS		
<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	<b>MORABITO CONSULTANTS, INC.</b> STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325
<b>A. MORTON THOMAS AND ASSOCIATES, INC.</b> CIVIL ENGINEER (LANDSCAPE) SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		

ARCH./ENGINEER OF RECORD
<b>PRIME A/E:</b>  <b>VETERAN DESIGN &amp; CONSTRUCTION INC.</b> 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081

STAMP


<b>Office of Construction and Facilities Management</b>  <b>VA</b> U.S. Department of Veterans Affairs
--

<b>Drawing Title</b> BASEMENT PLAN - BLDG 14H FIRE SUPPRESSION PLAN - NEW WORK	<b>Phase</b> 100% SUBMISSION	<b>Project Title</b> UPGRADE STEAM SYSTEM PATIENT AREAS	<b>Project Number</b> 512A5-21-304
<b>Approved:</b> Project Director	-	<b>Location</b> VAMC PERRY POINT	<b>Building Number</b>
		<b>Issue Date</b> 02/02/2024	<b>Drawing Number</b> FS101
		<b>Checked</b> JAH/CPA	<b>Drawn</b> KLC



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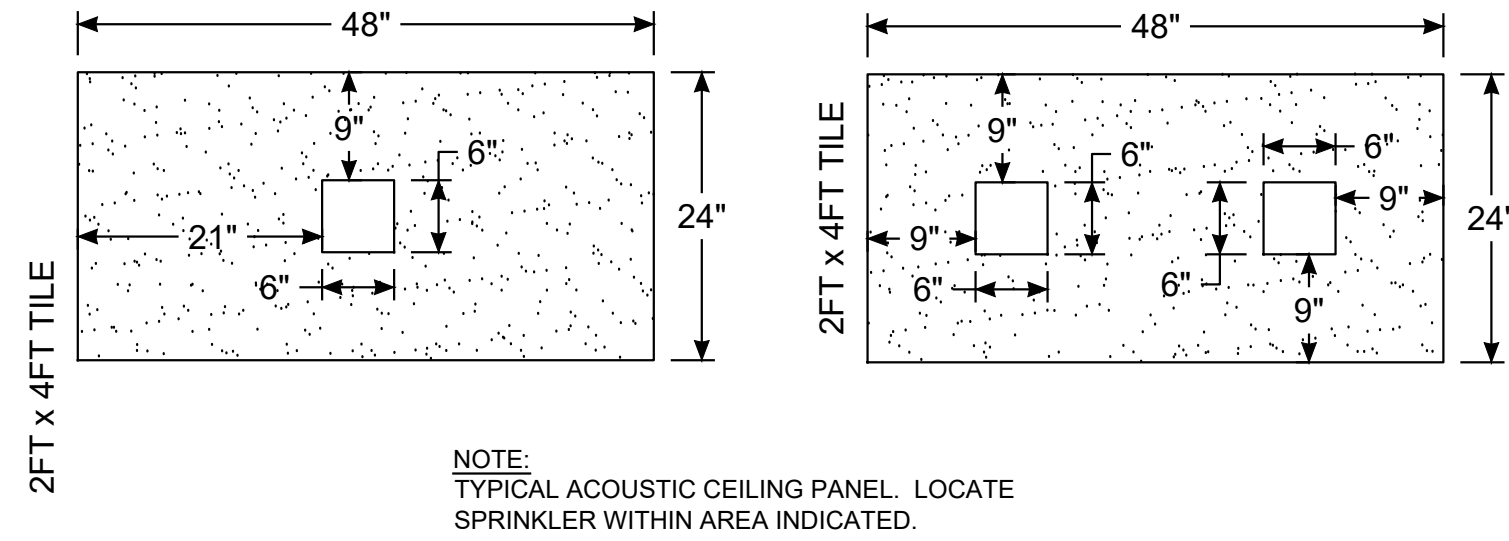
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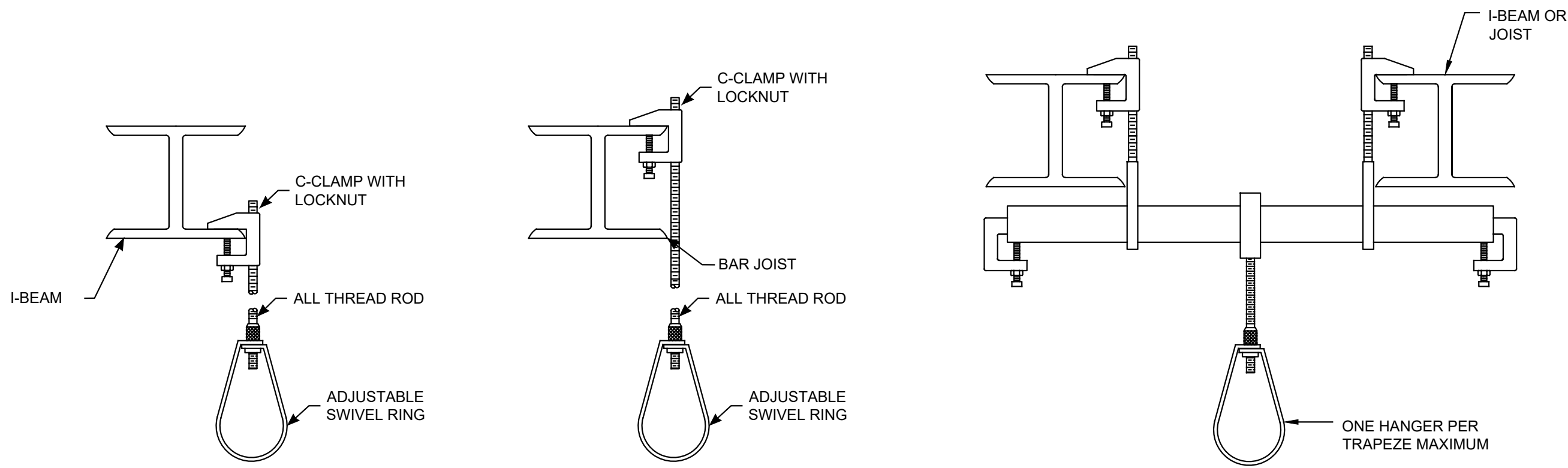
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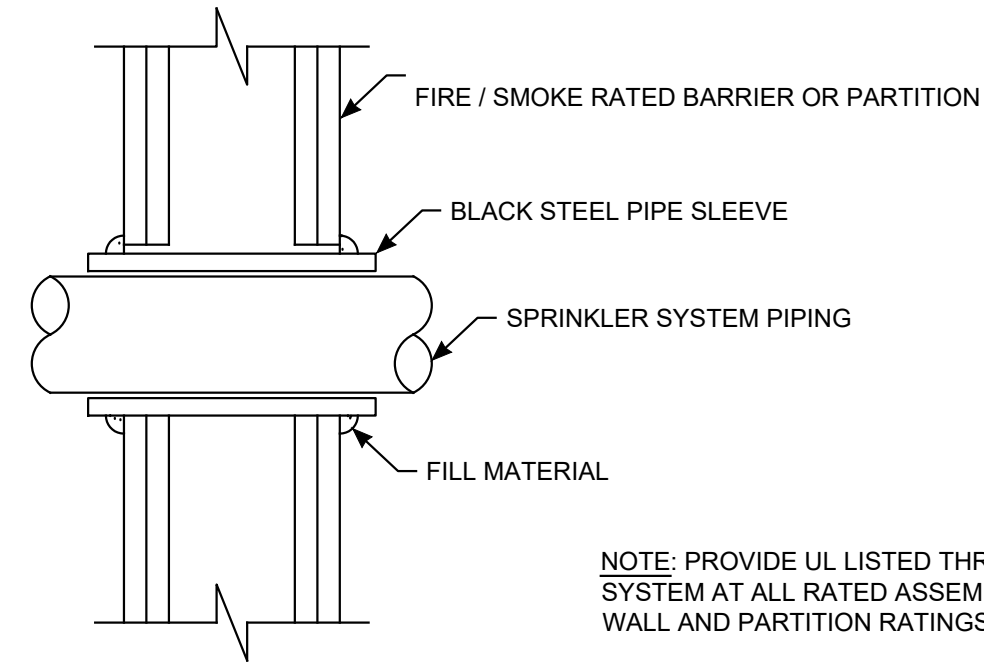
1 SPRINKLER PLACEMENT DETAIL  
Scale: NTS



DIAMETER	MAX. DISTANCE BETWEEN HANGERS			
	1"	1 1/2"	2"	2 1/2"
1"	12'-0"	12'-0"	15'-0"	15'-0"
1 1/2"	15'-0"	15'-0"	15'-0"	15'-0"

- HANGER NOTES:
1. MAXIMUM UNSUPPORTED ARMORER LENGTH SHALL NOT BE GREATER THAN 36". WHERE SYSTEM PRESSURES EXCEED 100 PSI, MAXIMUM UNSUPPORTED LENGTH SHALL NOT EXCEED 12".
  2. MIN 3/8" ALL THREAD ROD FOR PIPE DIAMETERS 4" AND SMALLER.
  3. DO NOT SUPPORT SPRINKLER PIPE FROM BOTTOM CHORDS OF BAR JOISTS OR FROM ROOF DECKING.
  4. WHERE TRAPEZE HANGERS ARE USED, THEY SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 13: 9.1.1.7.
  5. MAXIMUM DISTANCE BETWEEN A HANGER AND THE CENTERLINE OF AN UPRIGHT SPRINKLER SHALL NOT BE LESS THAN 3" IN ACCORDANCE WITH NFPA 13: 9.2.3.3.

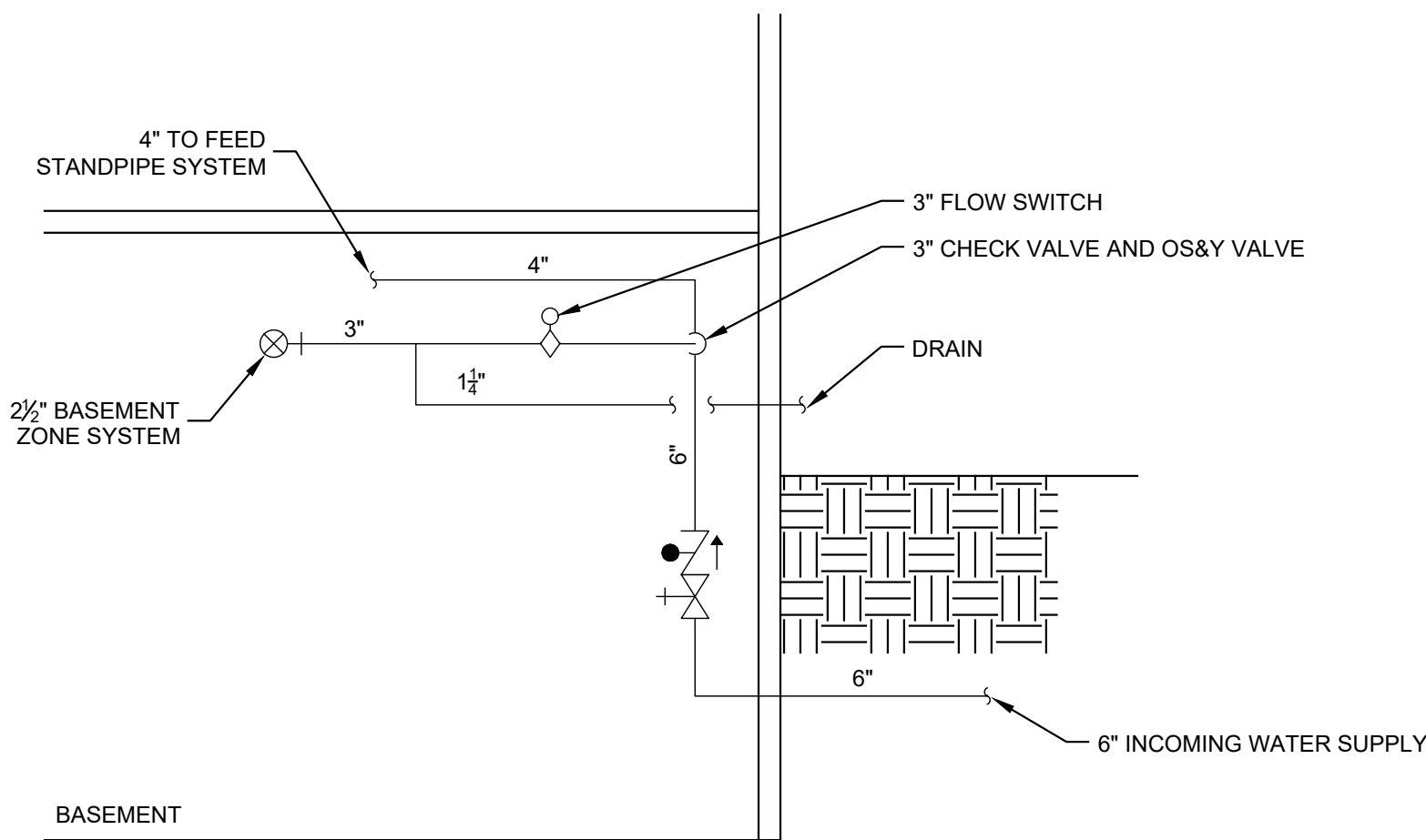
2 TYPICAL HANGER DETAIL  
Scale: NTS



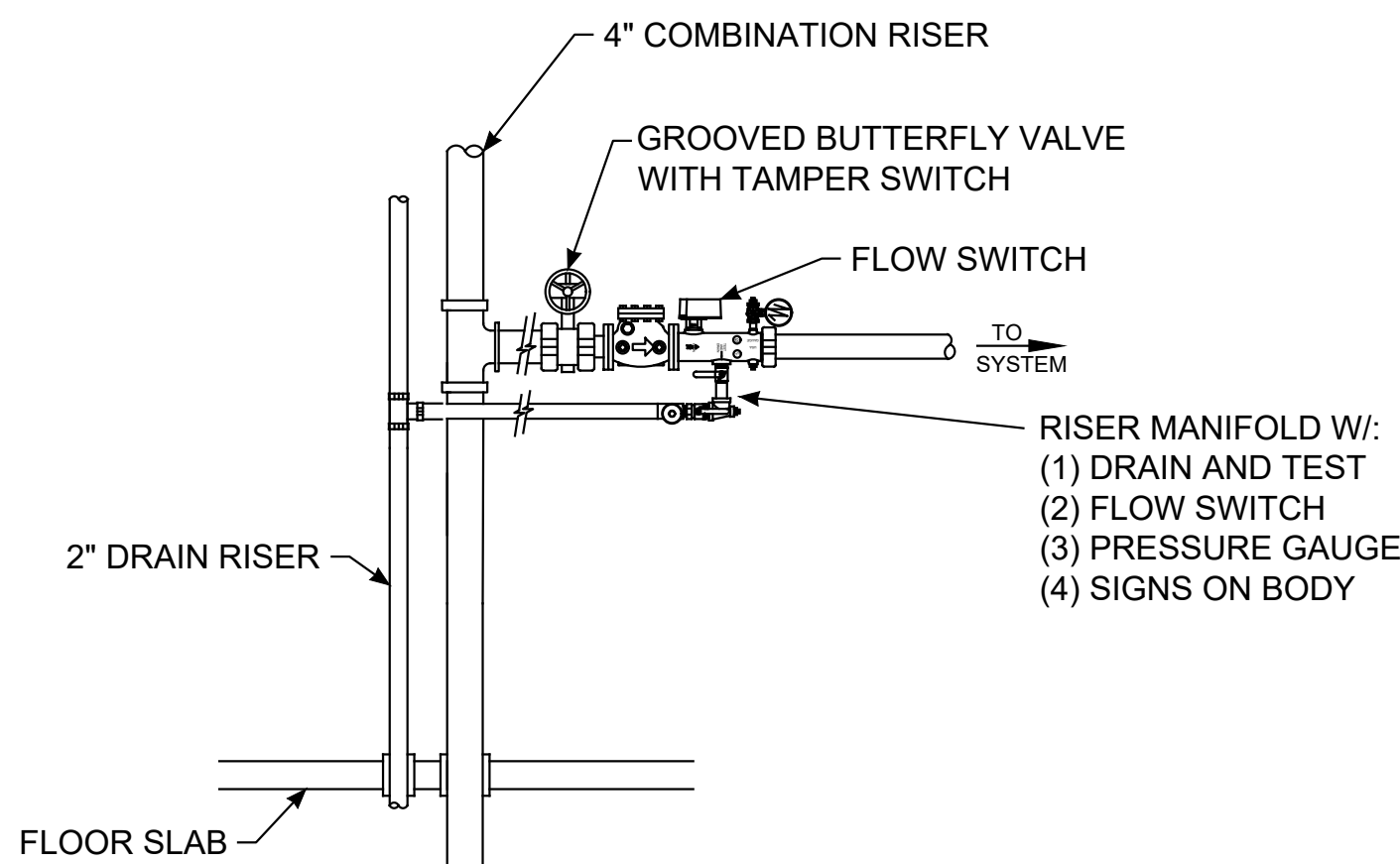
THROUGH PENETRANT: ONE PIPE INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

FILL MATERIAL: SEALANT - FILL MATERIAL (NOT SHOWN) APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL. BEAD OF FILL MATERIAL SHALL ALSO BE APPLIED AT THE PIPE/WALL INTERFACE.

3 TYPICAL THROUGH-WALL PENETRATION  
Scale: NTS



4 EXISTING SPRINKLER RISER  
Scale: NTS



5 TYPICAL SPRINKLER RISER DETAIL  
Scale: NTS

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ARCH./ENGINEER OF RECORD

PRIME A/E:

VETERAN DESIGN & CONSTRUCTION INC.

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Office of  
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VA

U.S. Department  
of Veterans  
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Drawing Title  
FIRE SUPPRESSION  
DETAILS

Approved: Project Director

Phase  
100% SUBMISSION

Project Title  
UPGRADE STEAM SYSTEM  
PATIENT AREAS

Location  
VAMC PERRY POINT

Issue Date  
02/02/2024

Checked  
JAH/CPA

Drawn  
KLC

Project Number  
512A5-21-304

Drawing Number  
FS501



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**RE-CONSTRUCTION NOTE:**

## LIFE SAFETY SYMBOLS

 1 HOUR FIRE BARRIER  
 SMOKE RESISTIVE

## ARCH./ENGINEER OF RECORD

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Approved: Project Director



Location	VAMC PERRY POINT
----------	------------------

Building Number

Drawing Number

FA001

Issue Date  
02/02/2024

Checked  
JAH/CP

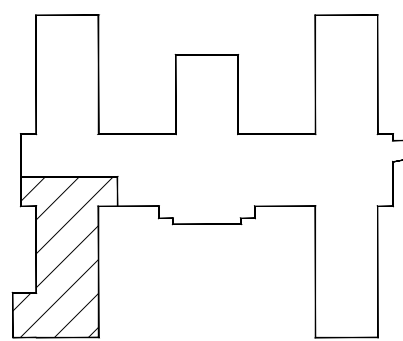
Drawn  
KLC



## KEYPLAN

- 1 AREA OF WORK IS SERVED BY THE FACP, NAC PANEL, AND AMP PANEL IN MECHANICAL 119.
- 2 MOUNT NOTIFICATION APPLIANCE BASED ON CATWALK LEVELS.
- 3 MOUNT NOTIFICATION APPLIANCE BASED ON FLOOR LEVEL.
- 4 NEW ZONE CONTROL ASSEMBLY FOR MECHANICAL ROOMS. COORDINATE FINAL ZONE CONTROL WITH CONTRACTOR AND CONSULT CUOR04A11169.

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NO SCALE

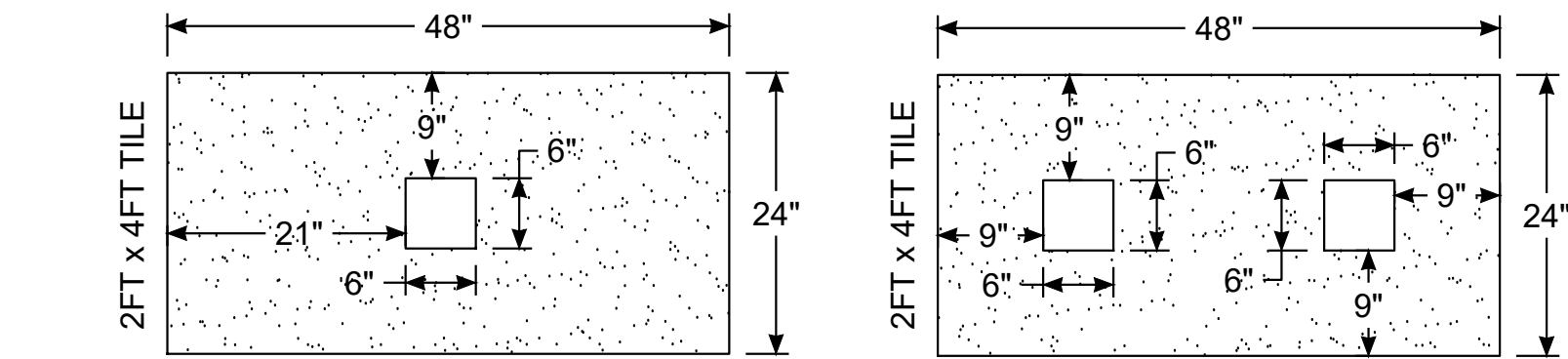
**1 FIRE ALARM PLAN - NEW WORK**  
FS101 Scale: 1/8" = 1'-0"

0' 2' 4' 8' 16'

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

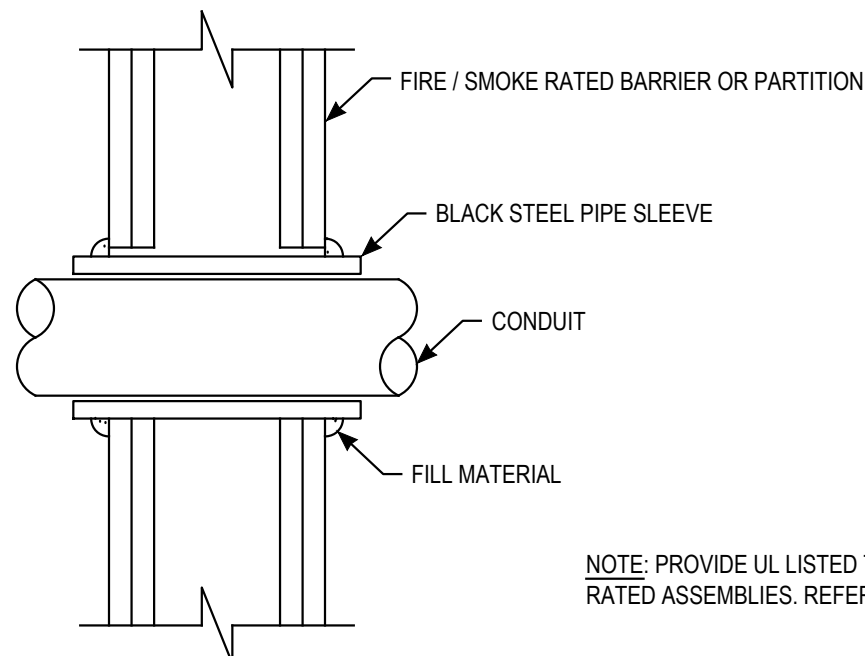
VA FORM 08-6231									
1	2	3	4	5	6	7	8	9	10





NOTE:  
TYPICAL ACOUSTIC CEILING PANEL. LOCATE CEILING MOUNTED  
DEVICE OR APPLIANCE WITHIN AREA INDICATED.

1 CEILING MOUNTED DEVICE OR APPLIANCE PLACEMENT DETAIL  
Scale: NTS  
FA501

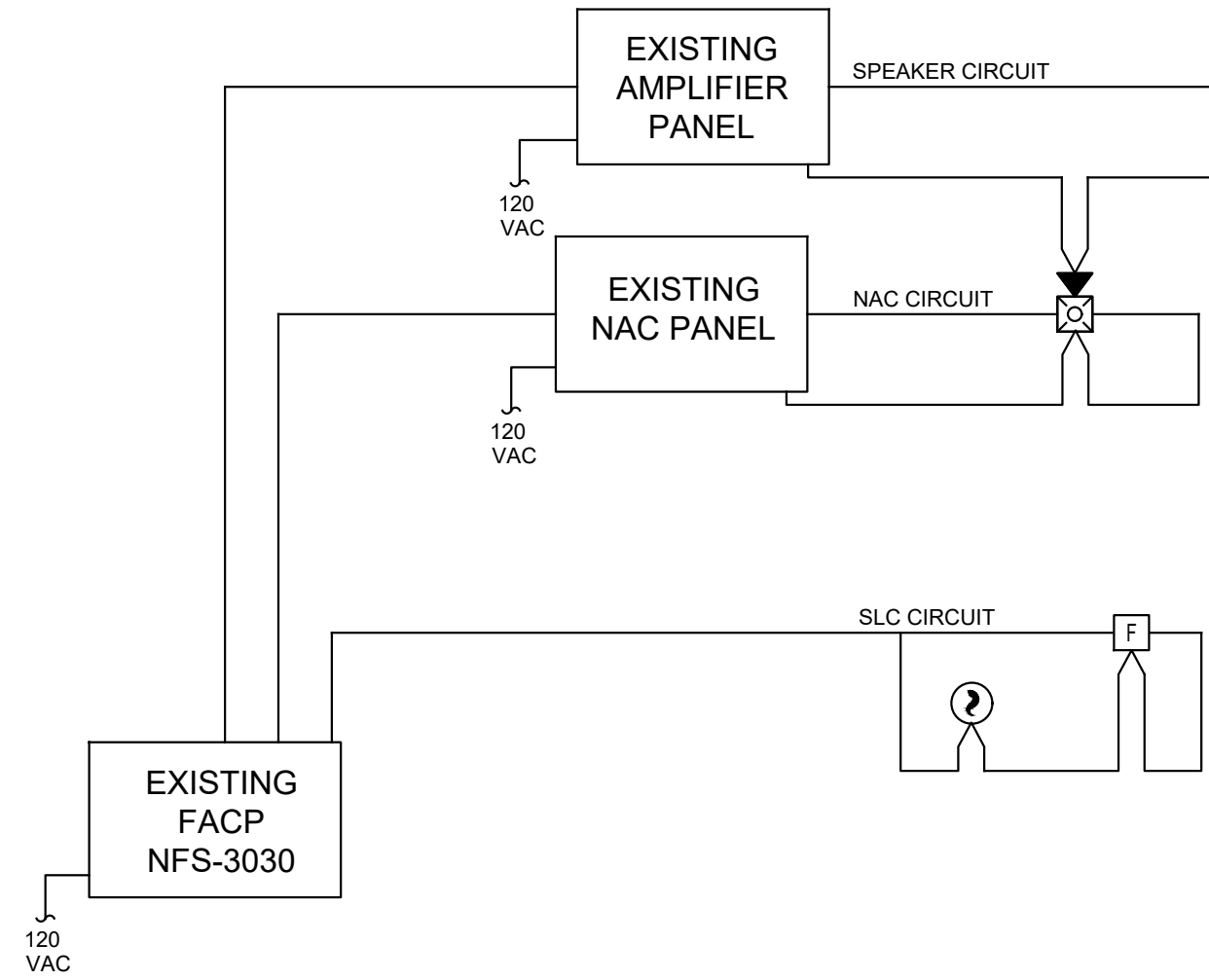


NOTE: PROVIDE UL LISTED THROUGH-PENETRATION FIRESTOP SYSTEM AT ALL  
RATED ASSEMBLIES. REFER TO SHEET A-XXX FOR WALL AND PARTITION RATINGS.

THROUGH PENETRANT: ONE PIPE INSTALLED CONCENTRICALLY OR ECCENTRICALLY WITHIN THE  
FIRESTOP SYSTEM. PIPE TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY.

FILL MATERIAL: SEALANT - FILL MATERIAL (NOT SHOWN) APPLIED WITHIN THE ANNULUS, FLUSH WITH  
BOTH SURFACES OF WALL. BEAD OF FILL MATERIAL SHALL ALSO BE APPLIED AT THE PIPE/WALL  
INTERFACE.

2 TYPICAL THROUGH-WALL PENETRATION  
Scale: NTS  
FA501

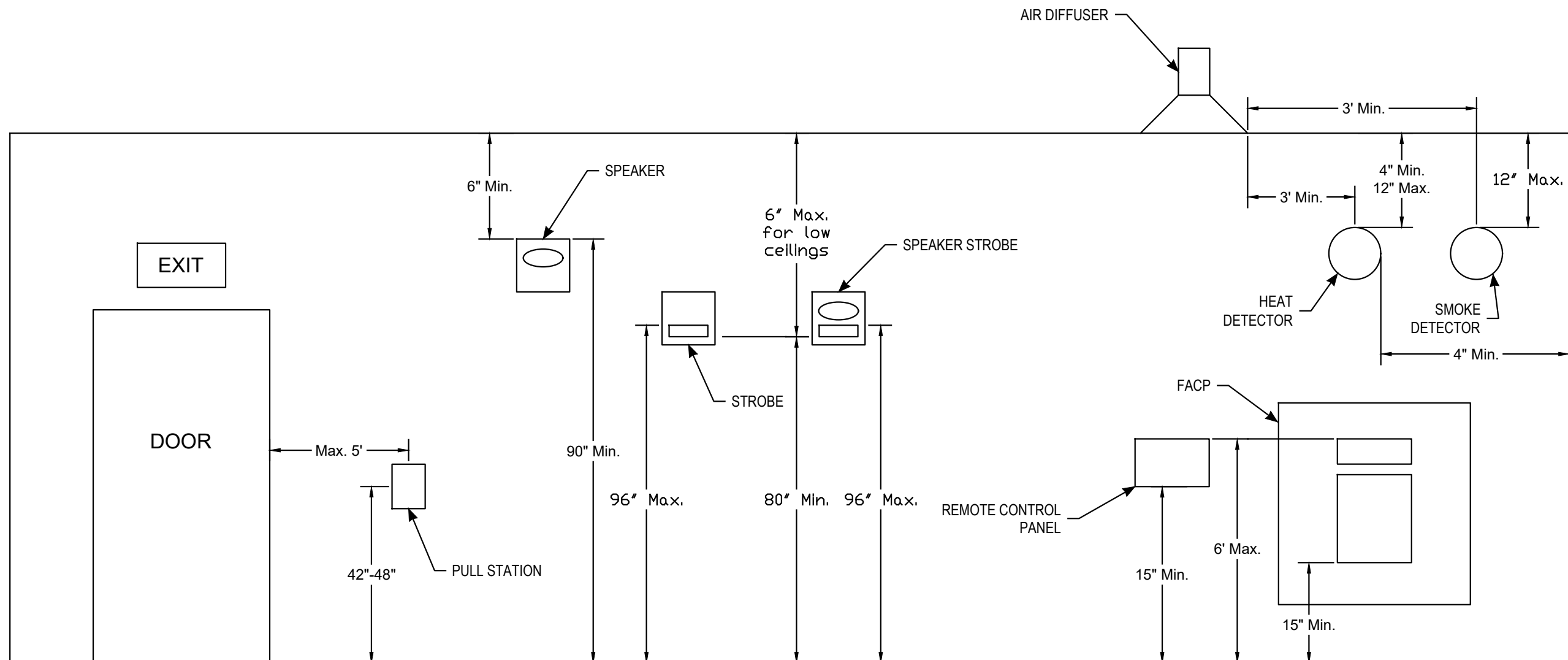


FIRE ALARM RISER GENERAL NOTES:

1. RISER IS INTENDED TO SHOW GENERAL SYSTEM ARCHITECTURE AS IT RELATES TO THIS PROJECT. DIAGRAM  
REPRESENTS MULTIPLE TYPICAL DEVICES, APPLIANCES, AND CIRCUITS.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING QUANTITY AND LOCATION OF ALL EXISTING FIRE ALARM  
PANELS AND DEVICES.
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION OF ALL NEW CONNECTIONS OF NEW DEVICES.
4. PROVIDE NEW NAC PANEL AND NEW SLC EXPANDER TO SERVE THIS PROJECT.

3 FIRE ALARM RISER  
Scale: NTS  
FA501

FIRE ALARM CABLE TYPES
SLC CIRCUIT - 2 CONDUCTOR TWISTED / 18 AWG
NAC CIRCUIT - 2 CONDUCTOR TWISTED / 14 AWG
SPEAKER CIRCUIT - 2 CONDUCTOR SHIELDED / 16 AWG
24 VDC POWER - 2 CONDUCTOR / 14 AWG
NOTES:
1. ALL 120VAC WIRING SHALL BE IN A SEPARATE CONDUIT FROM ALL FIRE ALARM SYSTEM WIRING.
2. CONTRACTOR SHALL FIELD VERIFY EXISTING CIRCUIT ROUTING AND TYPES PRIOR TO DEVELOPMENT OF SHOP DRAWINGS.



4 WALL-MOUNTED EQUIPMENT INSTALLATION HEIGHT  
Scale: NTS  
FA501

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Drawing Title FIRE ALARM DETAILS	Phase 100% SUBMISSION	Project Title UPGRADE STEAM SYSTEM PATIENT AREAS	Project Number 512A5-21-304
Approved: Project Director	-	Location VAMC PERRY POINT	Building Number
		Issue Date 02/02/2024	Checked JAH/CPA
		Drawn KLC	Drawing Number FA501



## ELECTRICAL SYMBOLS

- |  |   |
|--|---|
|  | MOTOR, THREE-PHASE  |
|  | EARTH GROUND  |
|  | JUNCTION BOX  |
|  | PULL BOX  |
|  | DISCONNECT SWITCH, FUSED  |
|  | GENERATOR, POWER  |
|  | BRANCH CIRCUIT HOMERUN. LINES INDICATE NUMBER OF CIRCUITS, WHEN MORE THAN THREE.          |
|  | PUSH BUTTON   |
|  | PANELBOARD CABINET - SURFACE MOUNTED, HIGH VOLTAGE  |
|  | PANELBOARD CABINET - SURFACE MOUNTED, LOW VOLTAGE   |
|  | RECEPTACLE, DUPLEX  |
|  | RECEPTACLE, DUPLEX WITH GFCI  |
|  | AUTO TRANSFER SWITCH  |
|  | SWITCH (# SUBSCRIPT AS INDICATED BELOW):<br>N= MANUAL MOTOR STARTING<br>WP= WEATHER PROOF |
|  | RECESSED DOWNLIGHT FIXTURE  |
|  | LIGHT FIXTURE, SURFACE MOUNTED, LETTER INDICATES TYPE.                                    |
|  | EXIT SIGN, WALL MOUNTED WITH DIRECTIONAL ARROWS AND FACES AS SHOWN                        |
|  | DRAWING NOTE  |
|  | EQUIPMENT TAG   |
|  | VARIABLE FREQUENCY DRIVE  |
|  | CONTROL BOX   |
|  | CONTROL PANEL   |
|  | MANHOLE LOCATION AND NUMBER   |
|  | TRANSFORMER   |
|  | EMERGENCY BATTERY PACK  |
|  | DISCONNECT  |
|  | OVERCURRENT PROTECTION DEVICE IN MOTOR CONTROL CENTER                                     |
|  | WIRING/CONDUIT WITHIN TRENCH TO MANHOLES  |
|  | DIRECT BURIED PVC CONDUIT   |

1P	1 POLE	MCA	MINIMUM CIRCUIT AMPS
1PH	1-PHASE	MCB	MAIN CIRCUIT BREAKER
3PH	3-PHASE	MCC	MOTOR CONTROL CENTER
AMP	AMPERE	MDP	MAIN DISTRIBUTION PANEL
AC	AIR CONDITIONING	MECH	MECHANICAL
AF	AMPERE FRAME	MIN	MINIMUM
AF	AVERAGE FAULT CURRENT	MIP	MINIMUM OVERCURRENT PROTECTION
ABO	ABOVE FINISHED FLOOR	MLO	MAIN LUGS ONLY
AHJ	AUTHORITY HAVING JURISDICTION	MTS	MOUNTING
AIC	AMPERE INTERRUPTING CAPACITY	MTS	MANUAL TRANSFER SWITCH
AMTR	AMPERE TRIP	NA	NOT APPLICABLE
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
BLDG	BUILDING	NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
BLD	CONDUIT	N	NEUTRAL
CD	CONSTRUCTION DOCUMENTS	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
CD	CONDENSATE PUMP	NTS	NOT TO SCALE
CKT	CIRCUIT	P	POLE
COND	CONDENSATE	PH	PHASE
CTRLS	CONTROLS	PNL	PANEL
CU	COPPER	RECEPT	RECEPTACLES
DDC	DIRECT DIGITAL CONTROL	RCS	RIGID GALVANIZED STEEL
DEMO	DEMOLITION	RM	ROOM
DISC	DISCONNECT	SECT	SECTION
DWG	DRAWING	SF	SQUARE FEET
ECB	ENCLOSED CIRCUIT BREAKER	SHT	SHEET
EF	EXHAUST FAN	SP	SUMP PUMP
EM	EMERGENCY	SW	SWITCH
EMT	ELECTRICAL METALLIC TUBING	SWB	SWITCHBOARD
EQUIP	EQUIPMENT	TYP	TYPICAL
EX	EXISTING	UH	UNIT HEATER
FA	FIRE ALARM	UN	UNLESS OTHERWISE NOTED
FLA	FULL LOAD AMPS	V	VOLT
FT	FEET OR FOOT	VA	VOLT AMPERE
FU SW	FUSED SWITCH	VOLT	VOLTAGE
G, GRD	GROUND	W	WIRE
GEN	GENERATOR	WH	WATER HEATER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHERPROOF
HP	HORSE POWER	XFMR	TRANSFORMER
J-BOX	JUNCTION BOX		
KV	KILOVOLT		
KAIC	KILOAMPERE INTERRUPTING CAPACITY		
G	KILOVOLT AMPERE		
LTS	LIGHTS		

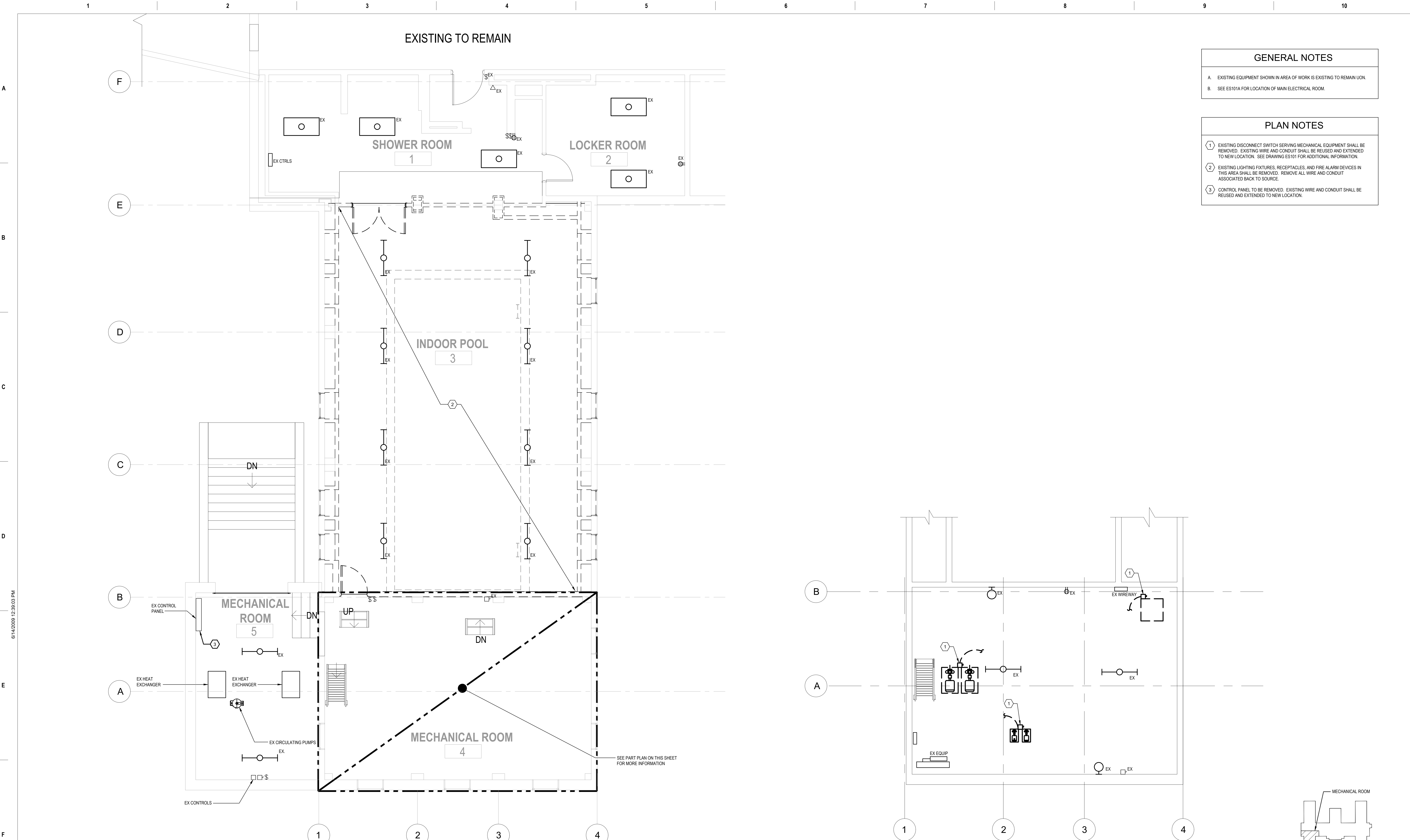
NFPA 70 NATIONAL ELECTRICAL CODE(NEC), 2023  
NFPA 99 HEALTHCARE FACILITIES, 2021  
NFPA 101 LIFE SAFETY CODE, 2022  
VA ELECTRICAL DESIGN MANUAL  
INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)

[illegible]









**GENERAL NOTES**

A. EXISTING EQUIPMENT SHOWN IN AREA OF WORK IS EXISTING TO REMAIN UNO.

B. SEE ES101A FOR LOCATION OF MAIN ELECTRICAL ROOM.

**PLAN NOTES**

1. EXISTING DISCONNECT SWITCH SERVING MECHANICAL EQUIPMENT SHALL BE REMOVED. EXISTING WIRE AND CONDUIT SHALL BE REUSED AND EXTENDED TO NEW LOCATION. SEE DRAWING ES101 FOR ADDITIONAL INFORMATION.

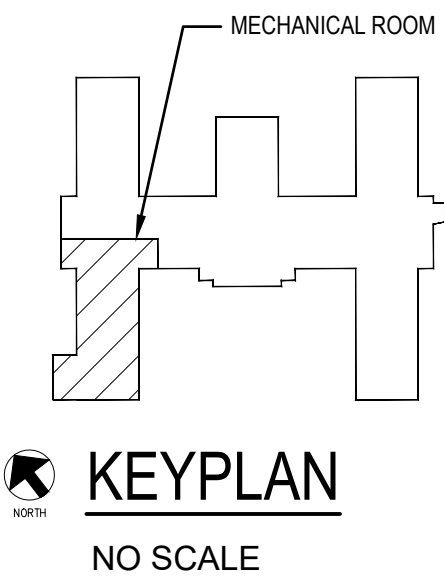
2. EXISTING LIGHTING FIXTURES, RECEPTACLES, AND FIRE ALARM DEVICES IN THIS AREA SHALL BE REMOVED. REMOVE ALL WIRE AND CONDUIT ASSOCIATED BACK TO SOURCE.

3. CONTROL PANEL TO BE REMOVED. EXISTING WIRE AND CONDUIT SHALL BE REUSED AND EXTENDED TO NEW LOCATION.

**1 BASEMENT PLAN - BLDG 14 - ELECTRICAL - DEMO**  
SCALE: 1/4" = 1'-0"

**2 SUB-BASEMENT PLAN - BLDG 14 - ELECTRICAL - DEMO**  
SCALE: 1/4" = 1'-0"

0' 1' 2' 4' 8'  
SCALE: 1/4" = 1'-0"



Revisions:	Date:

<b>SUBCONSULTANTS</b>		
<b>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</b> ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	<b>MORABITO CONSULTANTS, INC.</b> STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	<b>APEX COMPANIES, LLC</b> INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325
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<b>Drawing Title</b> BASEMENT PLAN - BLDG 14H - ELECTRICAL - DEMO
<b>Approved: Project Director</b>

<b>Phase</b> 100% SUBMISSION
-

Project Title		
UPGRADE STEAM SYSTEM PATIENT AREAS		
Location		
VAMC PERRY POINT		
Issue Date	Checked	Drawn
02/02/2024	MC/NH	KW

<b>Project Number</b> 512A5-21-304
<b>Building Number</b> 14H
<b>Drawing Number</b> ED101



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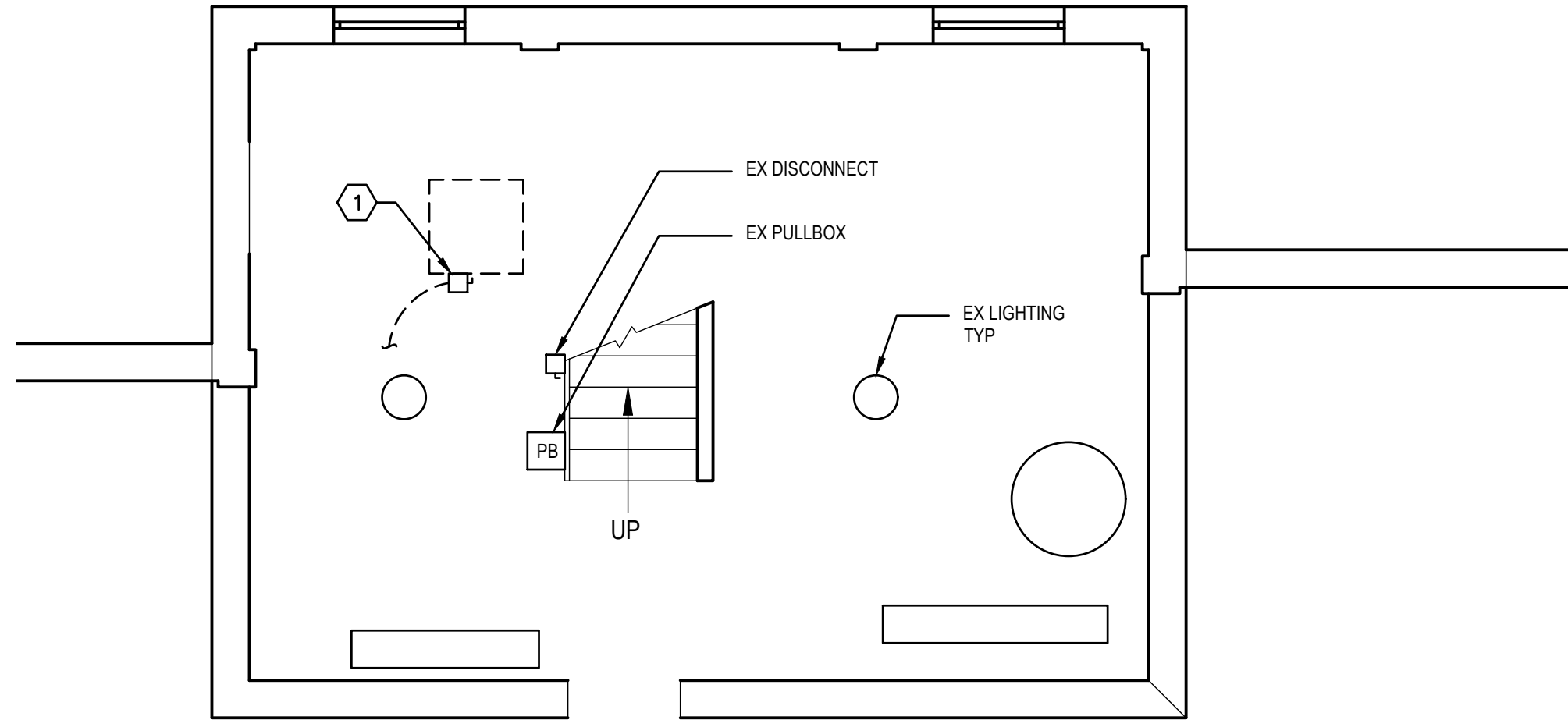
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GENERAL NOTES

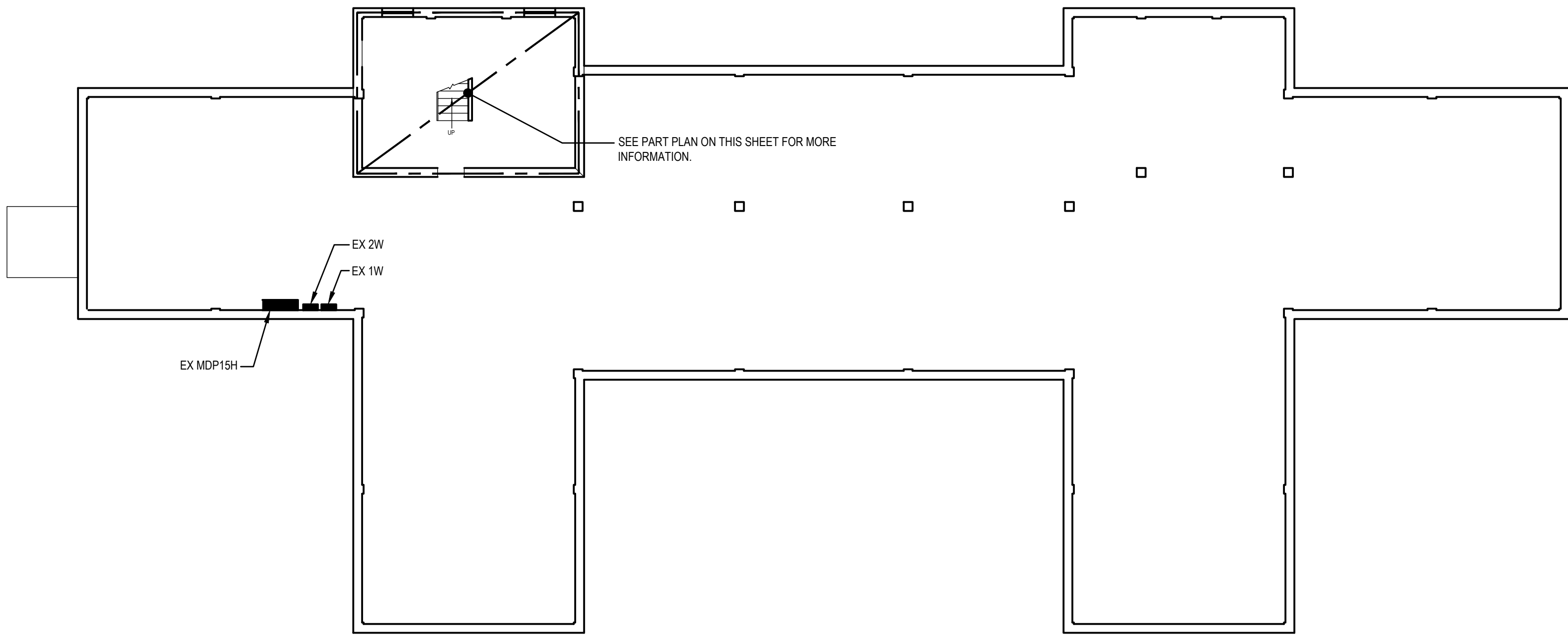
A. EXISTING EQUIPMENT SHOWN IN AREA OF WORK IS EXISTING TO REMAIN UON.

PLAN NOTES

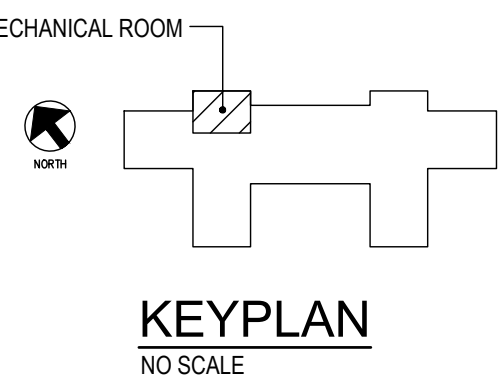
1 EXISTING DISCONNECT SWITCH SERVING MECHANICAL EQUIPMENT SHALL BE REMOVED. EXISTING WIRE AND CONDUIT SHALL BE REUSED AND EXTENDED TO NEW LOCATION. SEE DRAWING ES102 FOR ADDITIONAL INFORMATION.



1 SERVICE ROOM PART PLAN - ELECTRICAL - DEMO  
SCALE: 1/4" = 1'-0"

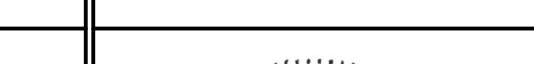



2 BASEMENT - BLDG 15H - ELECTRICAL  
SCALE: 3/32" = 1'-0"



0' 5'-4" 10'-8" 21'-4"  
SCALE: 3/32" = 1'-0"

0' 1' 2' 4' 8'  
SCALE: 1/4" = 1'-0"

		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management  VA U.S. Department of Veterans Affairs	Drawing Title	Phase	Project Title	Project Number		
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080  A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE/ SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545	MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081			BASEMENT PLAN - BLDG 15H - ELECTRICAL - DEMO	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS	512A5-21-304		
								Approved: Project Director	-	Location	Drawing Number		
										VAMC PERRY POINT	ED102		
										Issue Date	Checked	Drawn	
										02/02/2024	MC/NH	KW	
Revisions:													
Date:													

File Path

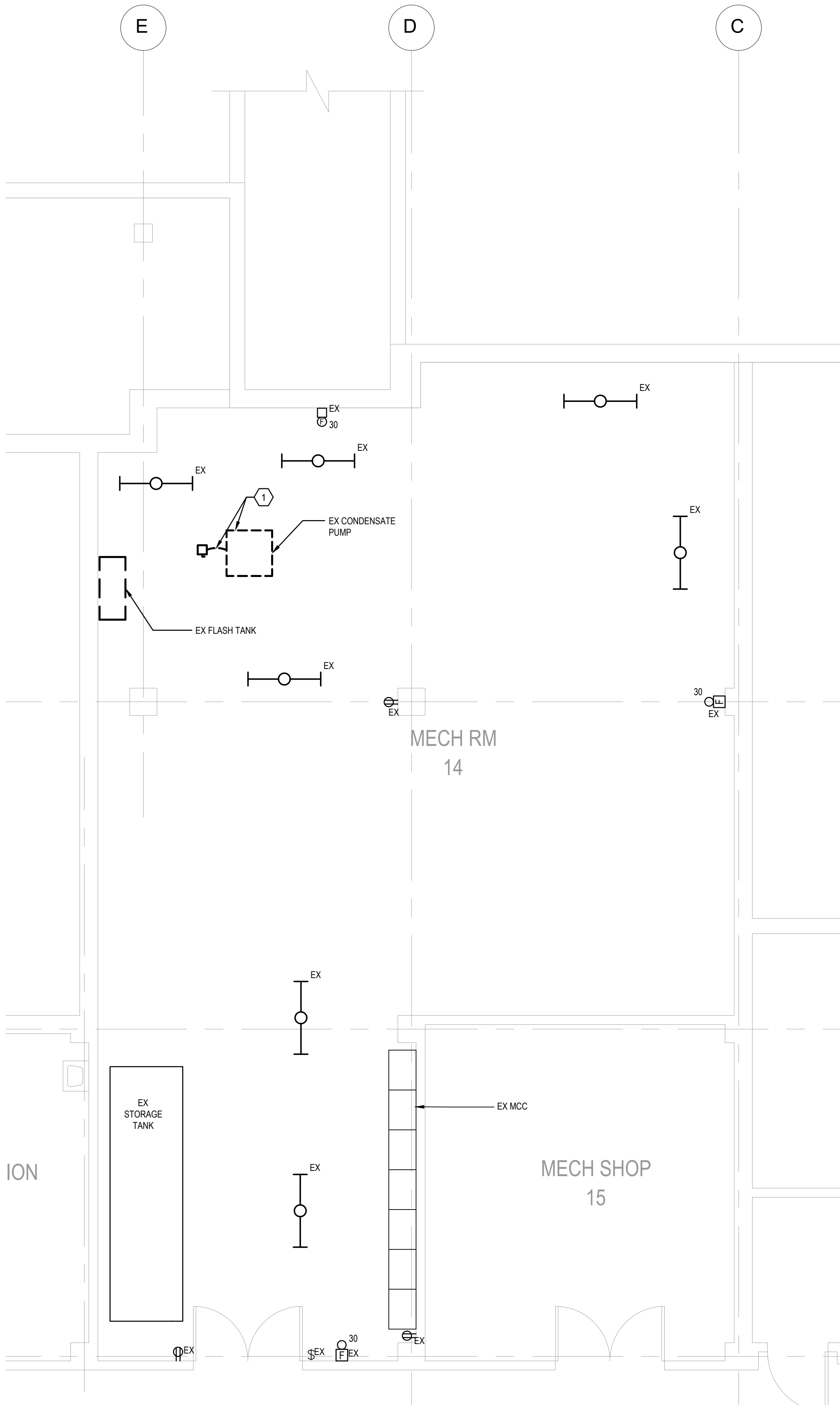


GENERAL NOTES

A. EXISTING EQUIPMENT SHOWN IN AREA OF WORK IS EXISTING TO REMAIN UON.

PLAN NOTES

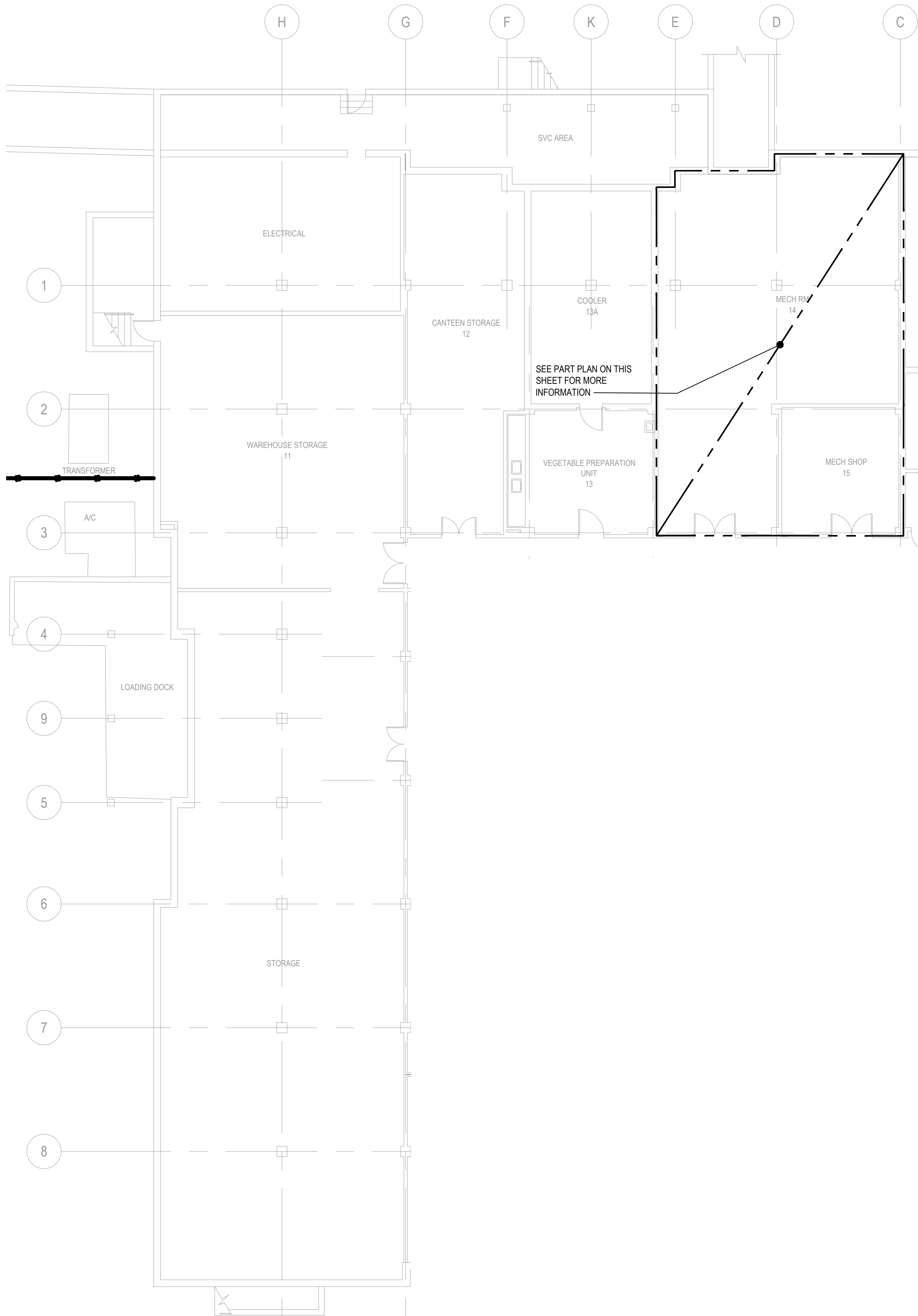
1 EXISTING DISCONNECT SWITCH SERVING MECHANICAL EQUIPMENT SHALL BE REMOVED. EXISTING WIRE AND CONDUIT SHALL BE REUSED AND EXTENDED TO NEW LOCATION. SEE DRAWING ES103 FOR ADDITIONAL INFORMATION.



1

MECHANICAL ROOM PART PLAN - ELECTRICAL - DEMO

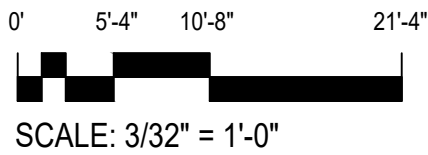
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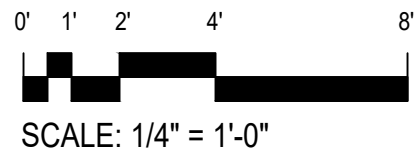
2

BASEMENT PLAN - BLDG 17H - ELECTRICAL

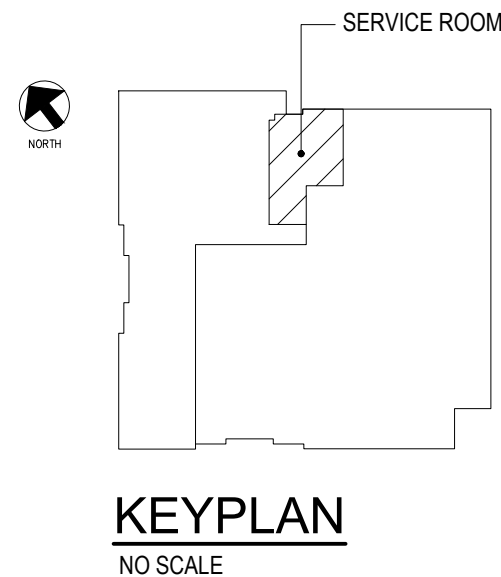
SCALE: 3/32" = 1'-0"



SCALE: 3/32" = 1'-0"




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

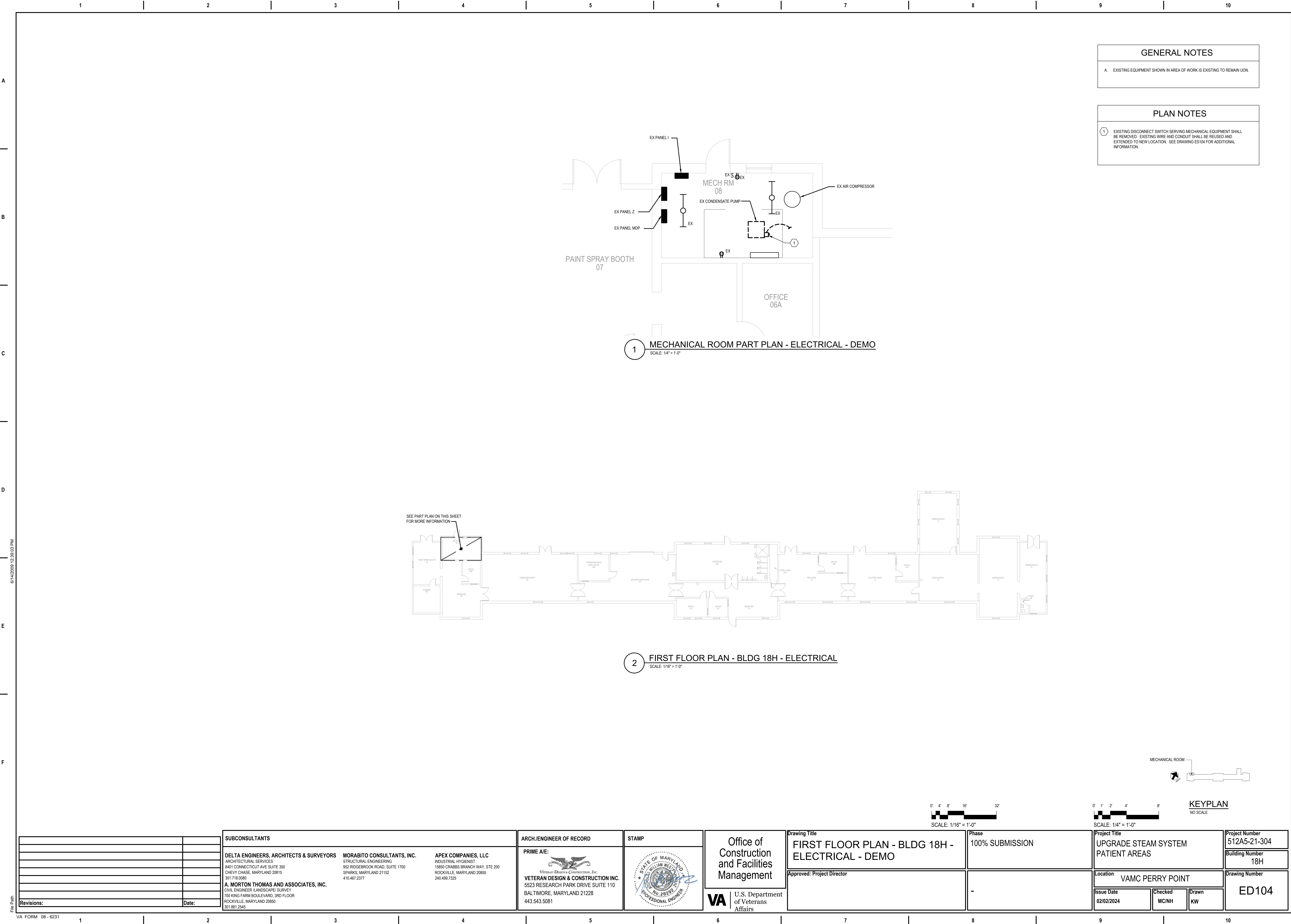


KEYPLAN

NO SCALE

		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD		STAMP		Office of Construction and Facilities Management  VA   U.S. Department of Veterans Affairs	BASEMENT PLAN - BLDG 17H - ELECTRICAL - DEMO		100% SUBMISSION		UPGRADE STEAM SYSTEM PATIENT AREAS		512A5-21-304			
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080  A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE/SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377			APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325			PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081								
Revisions:		Date:								Approved: Project Director		-		Location VAMC PERRY POINT		Drawing Number ED103			





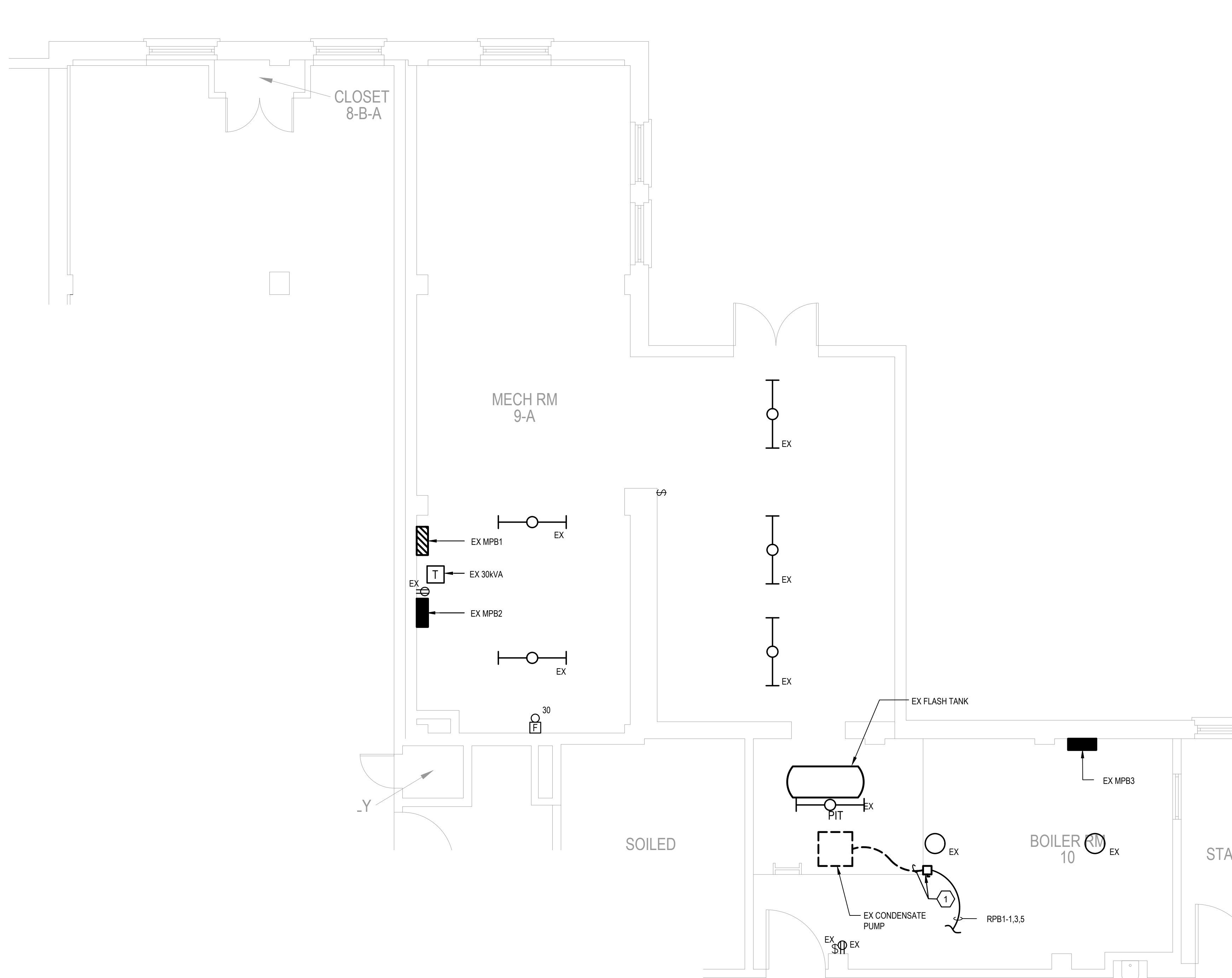


GENERAL NOTES

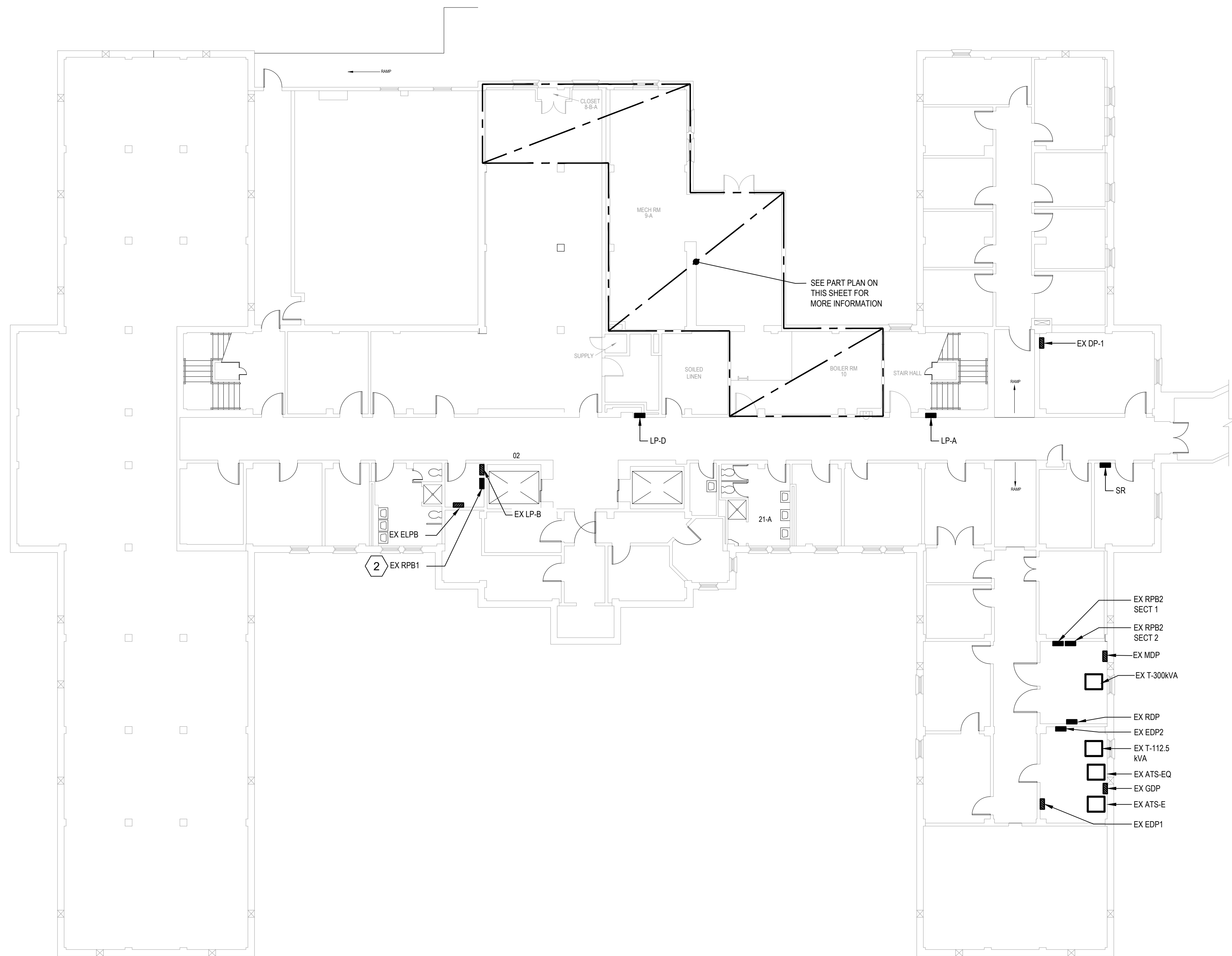
A. EXISTING EQUIPMENT SHOWN IN AREA OF WORK IS EXISTING TO REMAIN UON.

PLAN NOTES

① EXISTING DISCONNECT SWITCH SERVING MECHANICAL EQUIPMENT SHALL BE REMOVED. EXISTING WIRE AND CONDUIT SHALL BE REUSED AND EXTENDED TO NEW LOCATION. SEE DRAWING ES105 FOR ADDITIONAL INFORMATION.



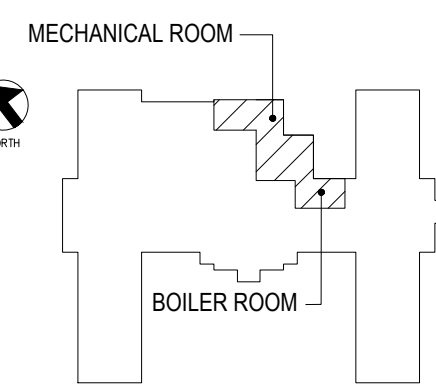
1 MECHANICAL ROOM PART PLAN - ELECTRICAL - DEMO  
SCALE: 1/4" = 1'-0"




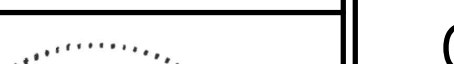
2 BASEMENT PLAN - BLDG 19H - ELECTRICAL  
SCALE: 3/32" = 1'-0"

0' 5'-4" 10'-8" 21'-4"  
SCALE: 3/32" = 1'-0"

0' 1' 2' 4' 8'  
SCALE: 1/4" = 1'-0"



KEYPLAN  
NO SCALE

		SUBCONSULTANTS		ARCH./ENGINEER OF RECORD		STAMP		<div>Office of Construction and Facilities Management</div> <div>VA   U.S. Department of Veterans Affairs</div>		Drawing Title		Phase		Project Title		Project Number					
		<div>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</div> <div>ARCHITECTURAL SERVICES</div> <div>8401 CONNECTICUT AVE SUITE 350</div> <div>CHEVY CHASE, MARYLAND 20815</div> <div>301.718.0080</div> <div>A. MORTON THOMAS AND ASSOCIATES, INC.</div> <div>CIVIL ENGINEER, LANDSCAPE/SURVEY</div> <div>700 KING FARM BOULEVARD, 3RD FLOOR</div> <div>ROCKVILLE, MARYLAND 20850</div> <div>301.881.2545</div>		<div>MORABITO CONSULTANTS, INC.</div> <div>STRUCTURAL ENGINEERING</div> <div>952 RIDGEBROOK ROAD, SUITE 1700</div> <div>SPARKS, MARYLAND 21152</div> <div>410.467.2377</div>		<div>APEX COMPANIES, LLC</div> <div>INDUSTRIAL HYGIENIST</div> <div>15850 CRABBS BRANCH WAY, STE 200</div> <div>ROCKVILLE, MARYLAND 20855</div> <div>240.499.7325</div>				<div>PRIME A/E:</div> <div></div> <div>VETERAN DESIGN &amp; CONSTRUCTION INC.</div> <div>5523 RESEARCH PARK DRIVE SUITE 110</div> <div>BALTIMORE, MARYLAND 21228</div> <div>443.543.5081</div>		<div></div>		BASEMENT PLAN - BLDG 19H - ELECTRICAL - DEMO		100% SUBMISSION		UPGRADE STEAM SYSTEM PATIENT AREAS		512A5-21-304	
Building Number																					
19H																					
Drawing Number																					
ED105																					
Revisions:		Date:						Approved: Project Director		-		Location		VAMC PERRY POINT							
														Issue Date		Checked		Drawn			
														02/02/2024		MJC/NH		KW			



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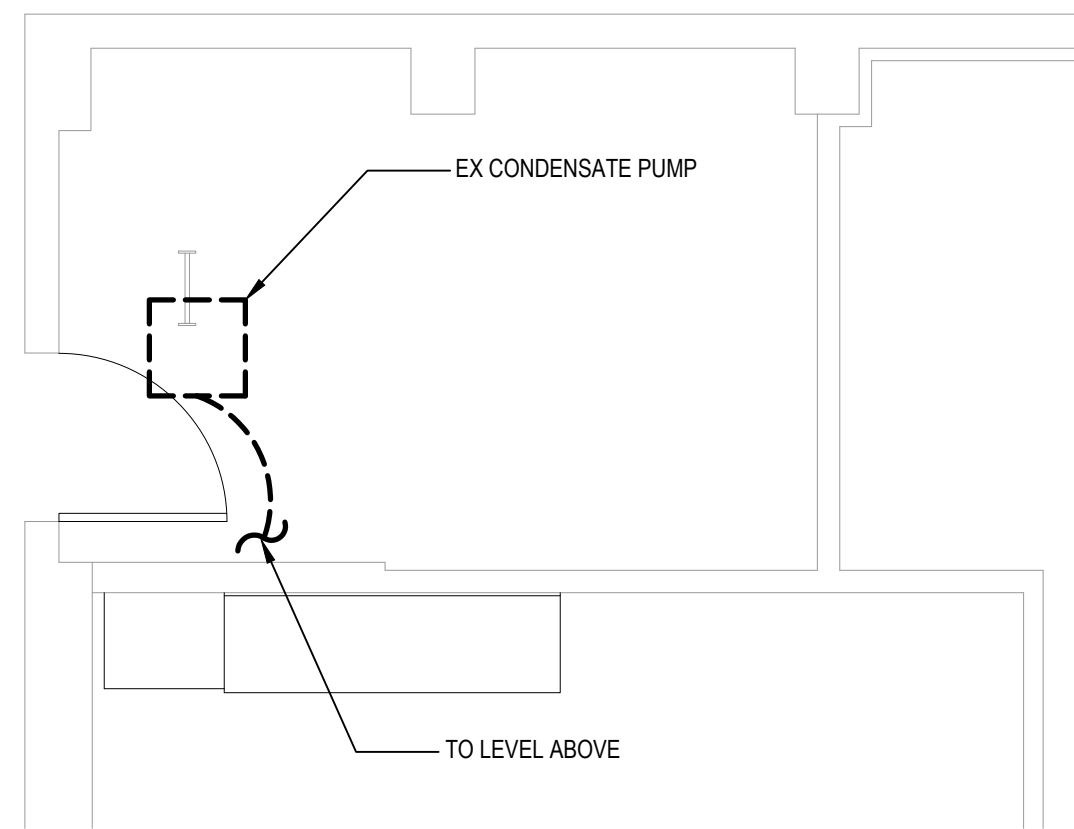
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GENERAL NOTES

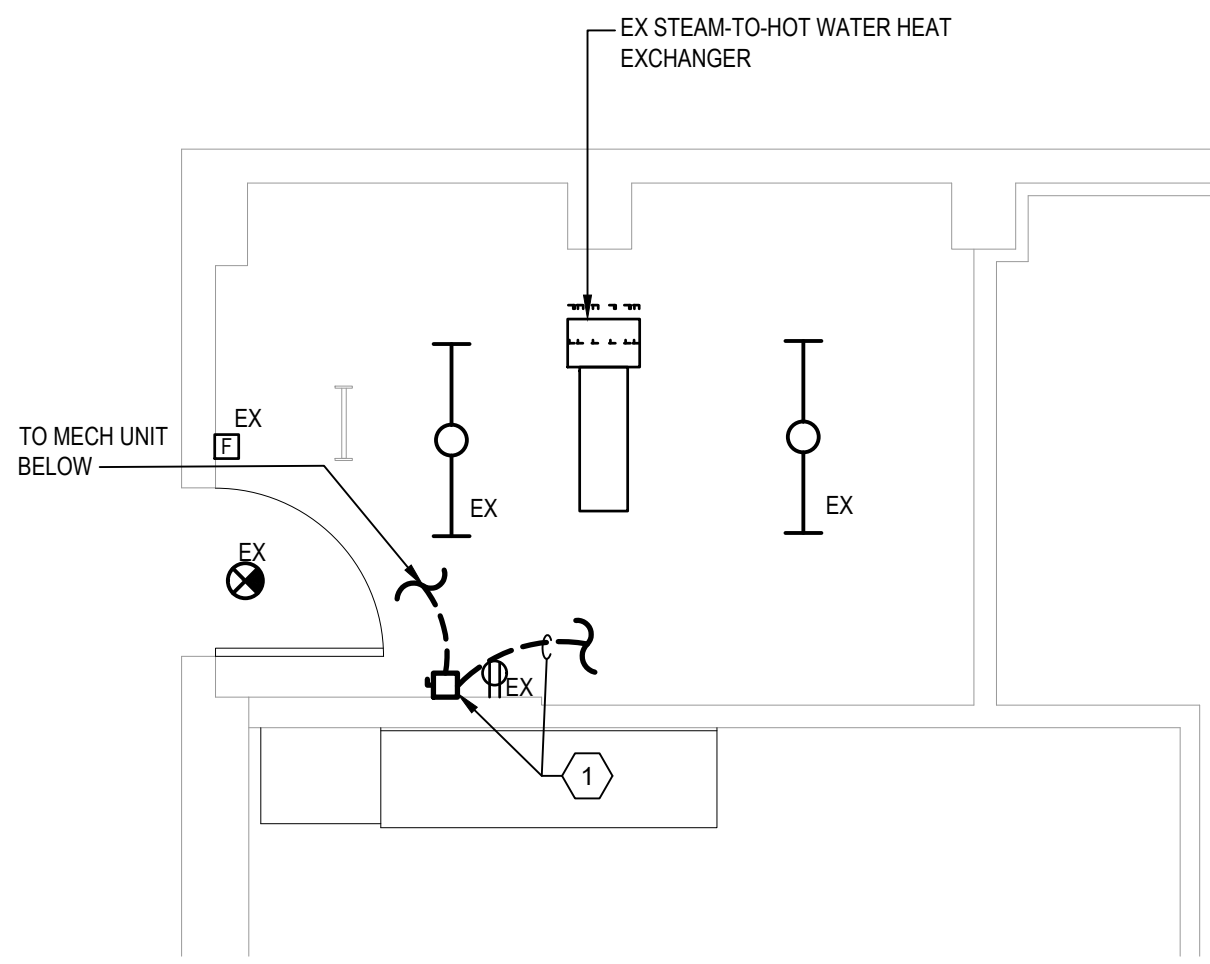
A. EXISTING EQUIPMENT SHOWN IN AREA OF WORK IS EXISTING TO REMAIN UON.

PLAN NOTES

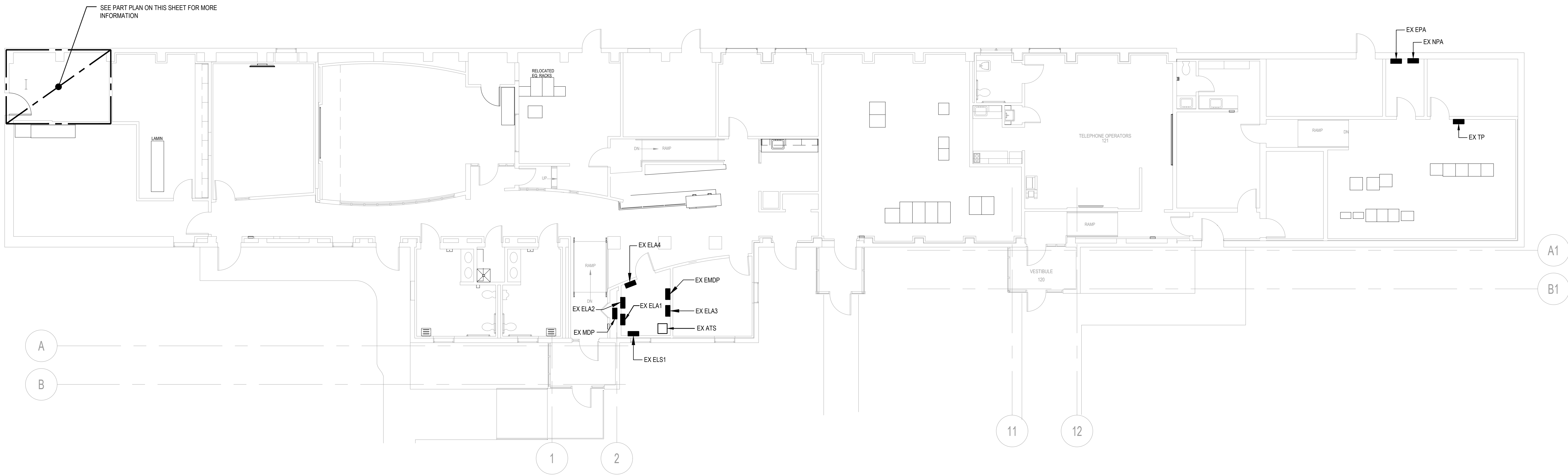
1. EXISTING DISCONNECT SWITCH SERVING MECHANICAL EQUIPMENT SHALL BE REMOVED. EXISTING WIRE AND CONDUIT SHALL BE REUSED AND EXTENDED TO NEW LOCATION. SEE DRAWING ES106 FOR ADDITIONAL INFORMATION.



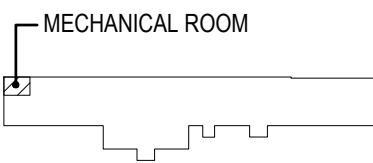
1 MECHANICAL ROOM SUB-BASEMENT PART PLAN - ELECTRICAL - DEMO  
SCALE: 1/4" = 1'-0"



2 MECHANICAL ROOM GROUND FLOOR PART PLAN - ELECTRICAL - DEMO  
SCALE: 1/4" = 1'-0"





3 FIRST FLOOR PLAN - BLDG 20H - ELECTRICAL  
SCALE: 1/8" = 1'-0"



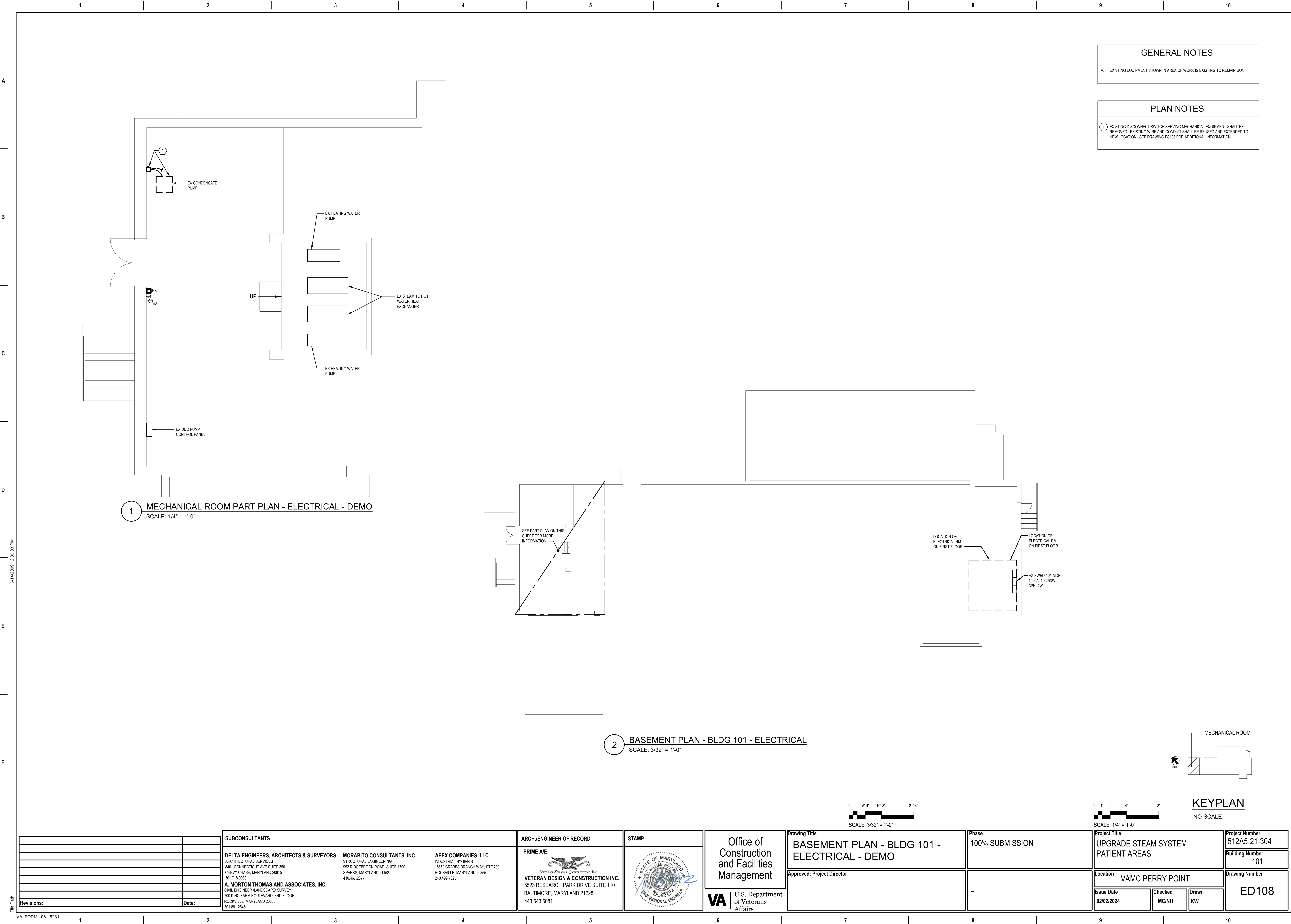
KEYPLAN  
NO SCALE

0' 2' 4' 8' 16'  
SCALE: 1/8" = 1'-0"

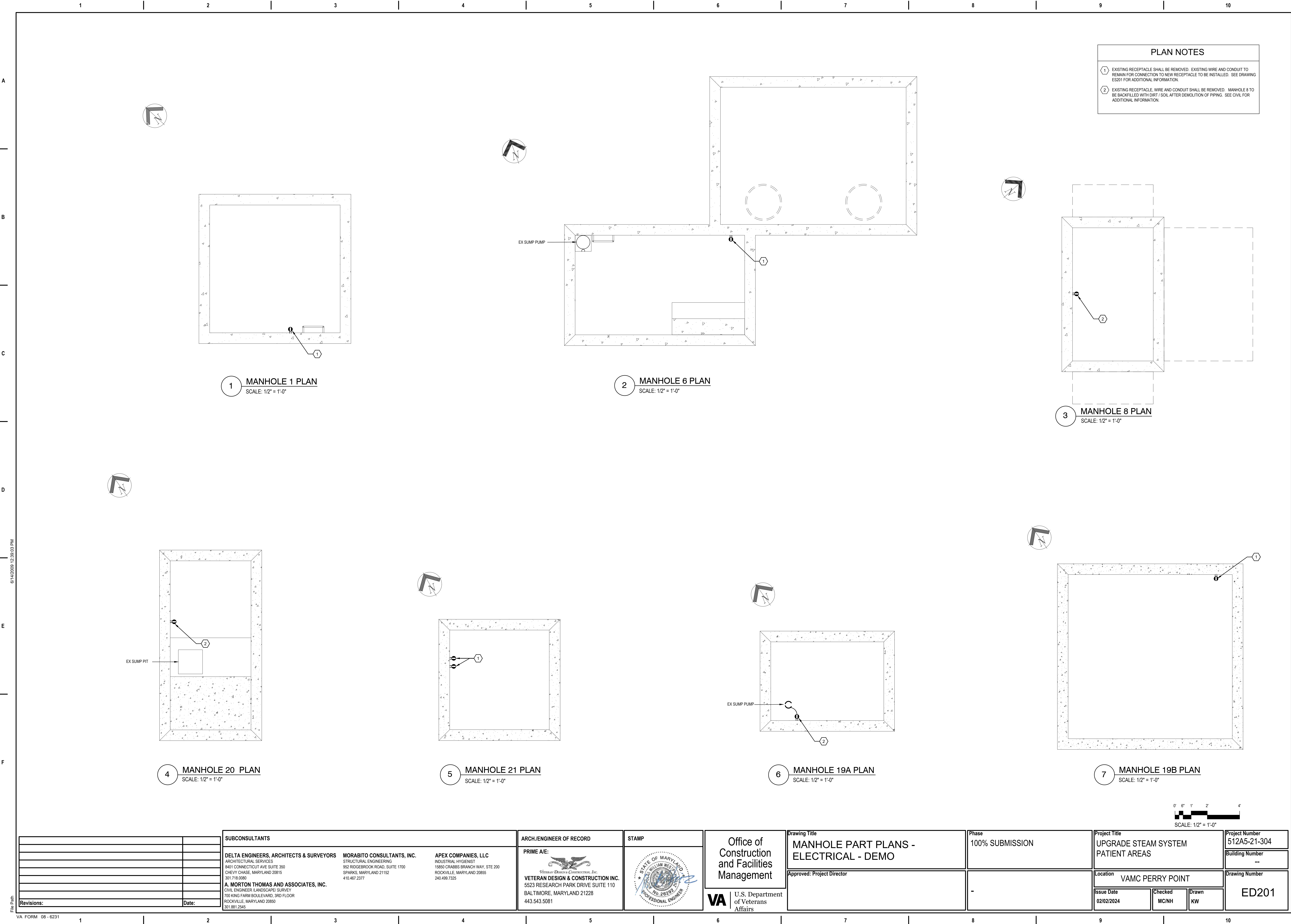
0' 1' 2' 4' 8'  
SCALE: 1/4" = 1'-0"

		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management  VA   U.S. Department of Veterans Affairs	FIRST FLOOR PLAN - BLDG 20H - ELECTRICAL - DEMOLITION		100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS			512A5-21-304					
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080  A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE/ SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377			APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325			PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081					Building Number 20H		Drawing Number ED106	
											Approved: Project Director			Location VAMC PERRY POINT					
											-								
													Issue Date 02/02/2024			Checked MC/NH	Drawn KW		
Revisions:		Date:																	

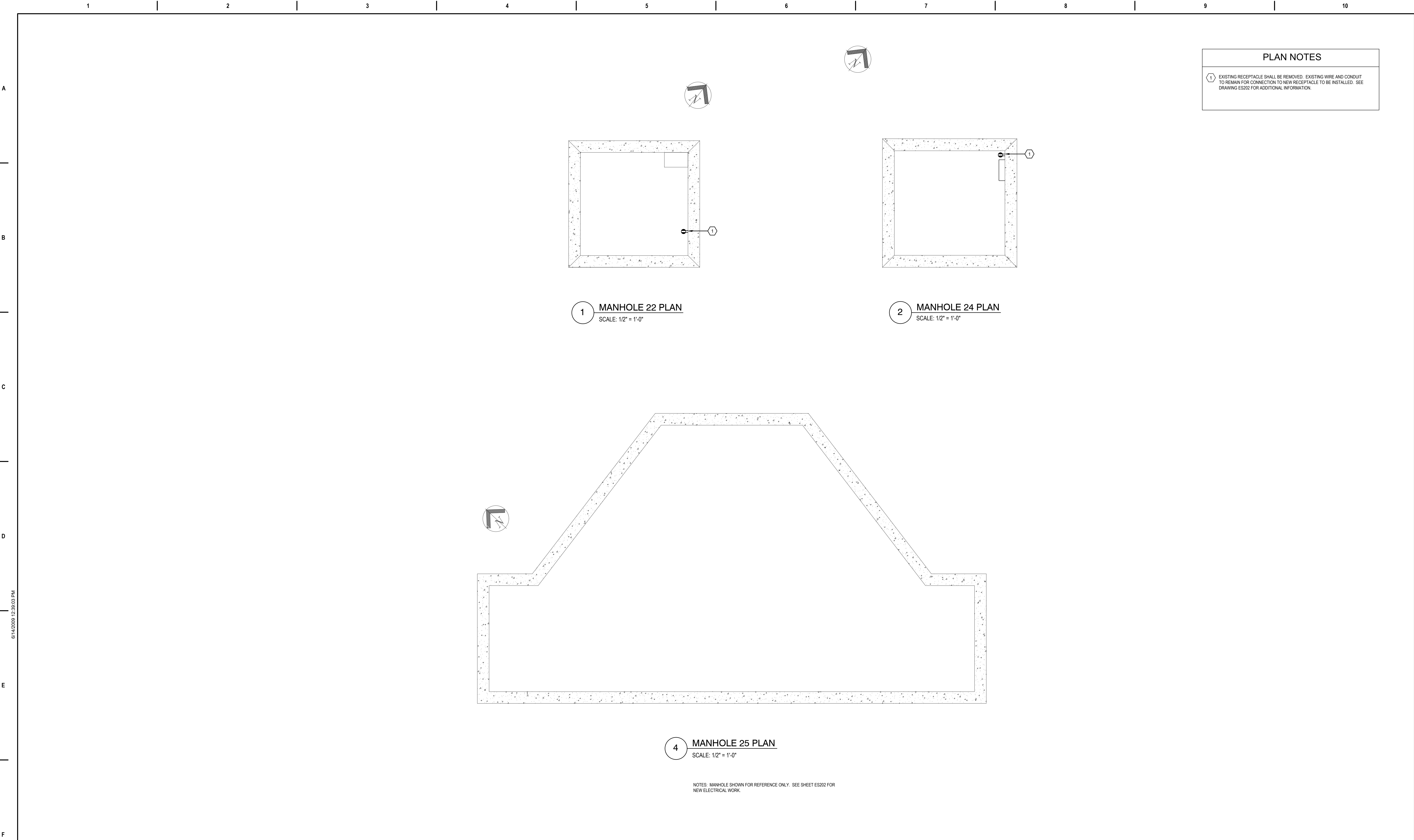












1 MANHOLE 22 PLAN  
SCALE: 1/2" = 1'-0"

2 MANHOLE 24 PLAN  
SCALE: 1/2" = 1'-0"

4 MANHOLE 25 PLAN  
SCALE: 1/2" = 1'-0"



NOTES: MANHOLE SHOWN FOR REFERENCE ONLY. SEE SHEET ES202 FOR NEW ELECTRICAL WORK.

PLAN NOTES

1 EXISTING RECEPTACLE SHALL BE REMOVED. EXISTING WIRE AND CONDUIT TO REMAIN FOR CONNECTION TO NEW RECEPTACLE TO BE INSTALLED. SEE DRAWING ES202 FOR ADDITIONAL INFORMATION.

0' 6" 1' 2' 4'

SCALE: 1/2" = 1'-0"

		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management  VA   U.S. Department of Veterans Affairs	Drawing Title	Phase	Project Title			Project Number				
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080			MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325		PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081		MANHOLE PART PLANS - ELECTRICAL - DEMO	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS			512A5-21-304		
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE/ SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545									Location VAMC PERRY POINT			Drawing Number			
												Issue Date 02/02/2024			Checked MC/NH	Drawn KW	ED202
Revisions:																	
	Date:																



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GENERAL NOTES

A. EXISTING EQUIPMENT SHOWN IN AREA OF WORK IS EXISTING TO REMAIN UNO.

B. WORKING ON EXPOSED CONDUCTING PARTS IS NOT PERMITTED WITHOUT COR APPROVAL.

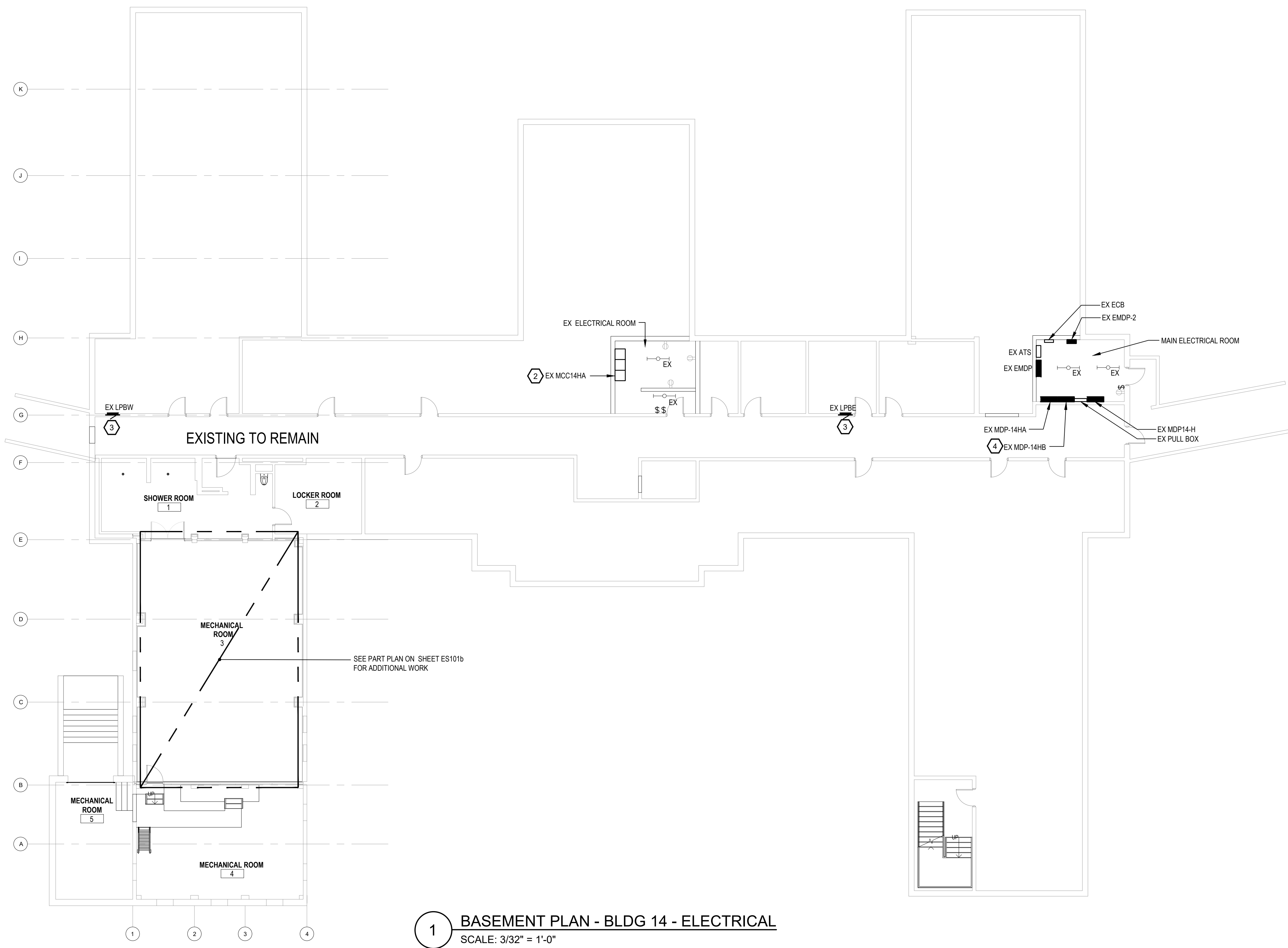
PLAN NOTES

1 NEW CONDENSATE RECEIVING TANK WITH NEMA 2 UL LISTED CONTROL PANEL. EXTEND WIRE AND CONDUIT MATCHING EXISTING TO NEW LOCATION.

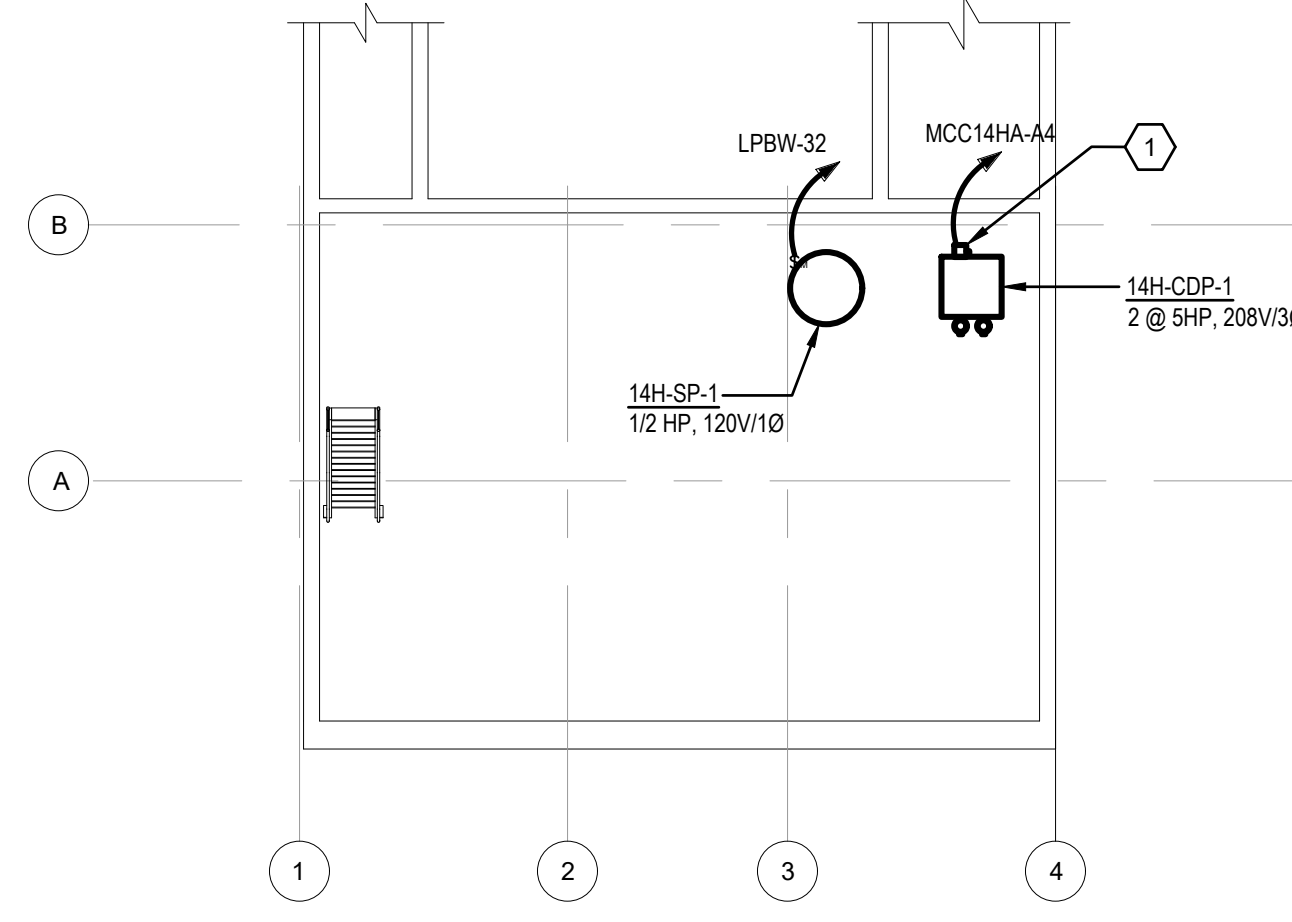
2 EXISTING MCC SERVING CONDENSATE RECEIVING TANK.

3 EXISTING PANEL SERVING LIGHTS, UNIT HEATERS AND RECEPTACLES.

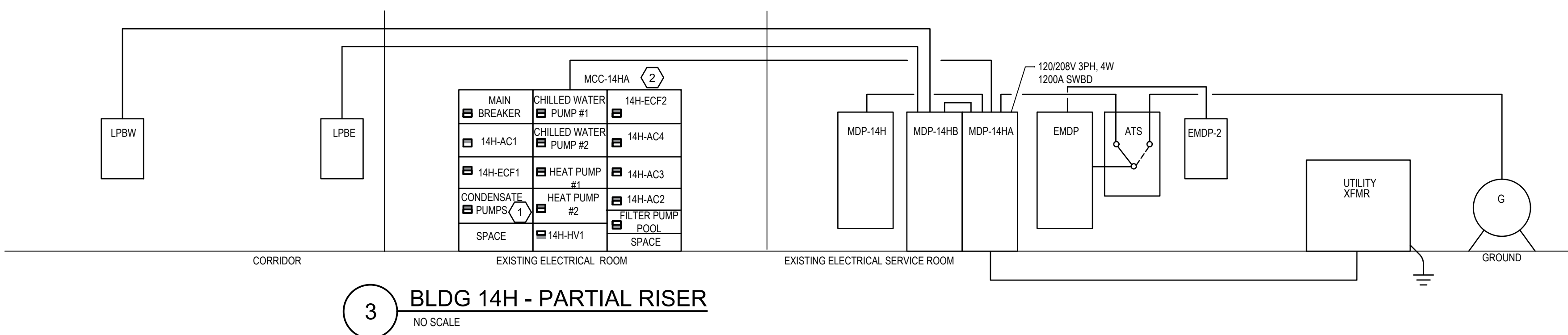
4 EXISTING PANEL SERVING PUMPS IN NEW MECHANICAL ROOM.



1 BASEMENT PLAN - BLDG 14 - ELECTRICAL  
SCALE: 3/32" = 1'-0"

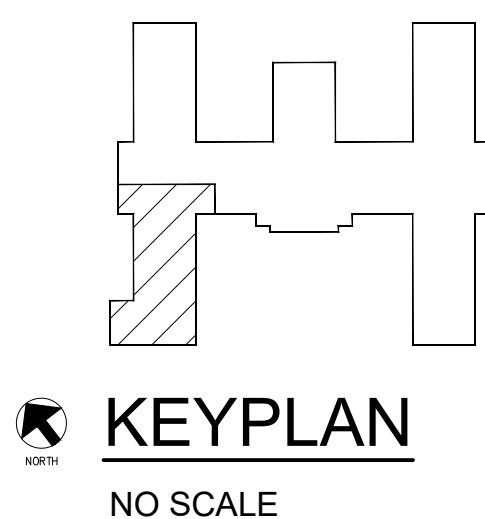


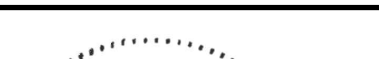

2 SUB-BASEMENT PLAN - BLDG 14 - ELECTRICAL - NEW WORK  
SCALE: 1/8" = 1'-0"



3 BLDG 14H - PARTIAL RISER  
NO SCALE

0' 5'-4" 10'-8" 21'-4"  
SCALE: 3/32" = 1'-0"



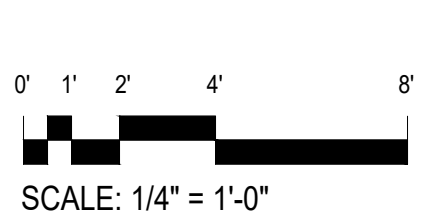
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		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080		MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377		APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325				PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081									
		A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE) SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545								Approved: Project Director				Location VAMC PERRY POINT		Drawing Number ES101a			
Revisions:		Date:								VA   U.S. Department of Veterans Affairs		-		Issue Date 02/02/2024		Checked MC/NH		Drawn KW	





GENERAL NOTES	
A.	ALL UTILITY STRIP FIXTURES ARE TYPE A UNLESS NOTED OTHERWISE.
B.	ALL EXIT SIGNS ARE TYPE B UNLESS NOTED OTHERWISE.
C.	ALL BATTERY PACKS ARE TYPE C UNLESS NOTED OTHERWISE.
D.	COORDINATE LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO INSTALLATION.
E.	WORKING ON EXPOSED CONDUCTING PARTS IS NOT PERMITTED WITHOUT COR APPROVAL.

2 BASEMENT PART PLAN - LIGHTING - NEW WORK  
SCALE: 1/4" = 1'-0"

File Path



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GENERAL NOTES

A.

EXISTING EQUIPMENT SHOWN IN AREA OF WORK IS EXISTING TO REMAIN UNO.

B.

WORKING ON EXPOSED CONDUCTING PARTS IS NOT PERMITTED WITHOUT COR APPROVAL.

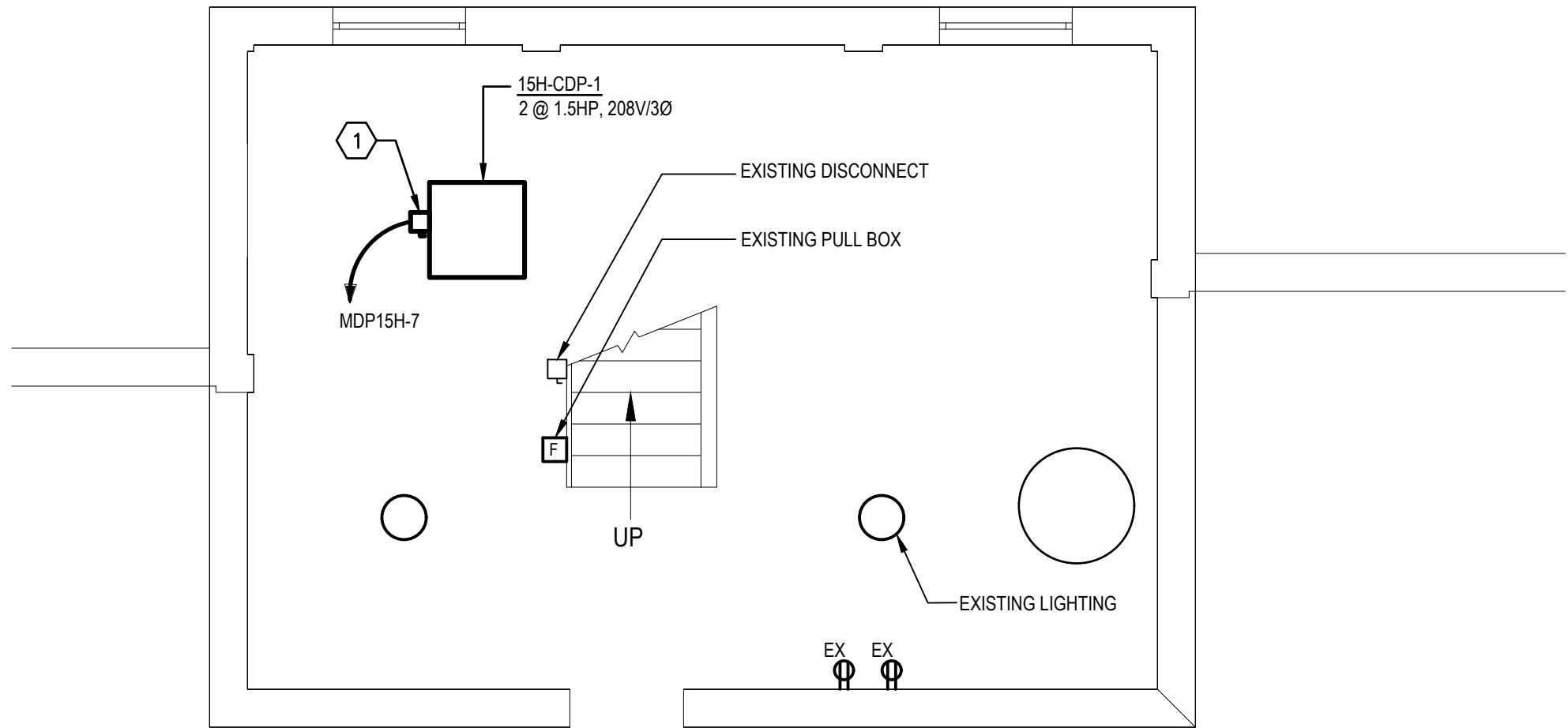
PLAN NOTES

1

NEW CONDENSATE RECEIVING TANK WITH NEMA 2 UL LISTED CONTROL PANEL. EXTEND WIRE AND CONDUIT MATCHING EXISTING TO NEW LOCATION.

2

EXISTING PANEL SERVING CONDENSATE RECEIVING TANK.



1

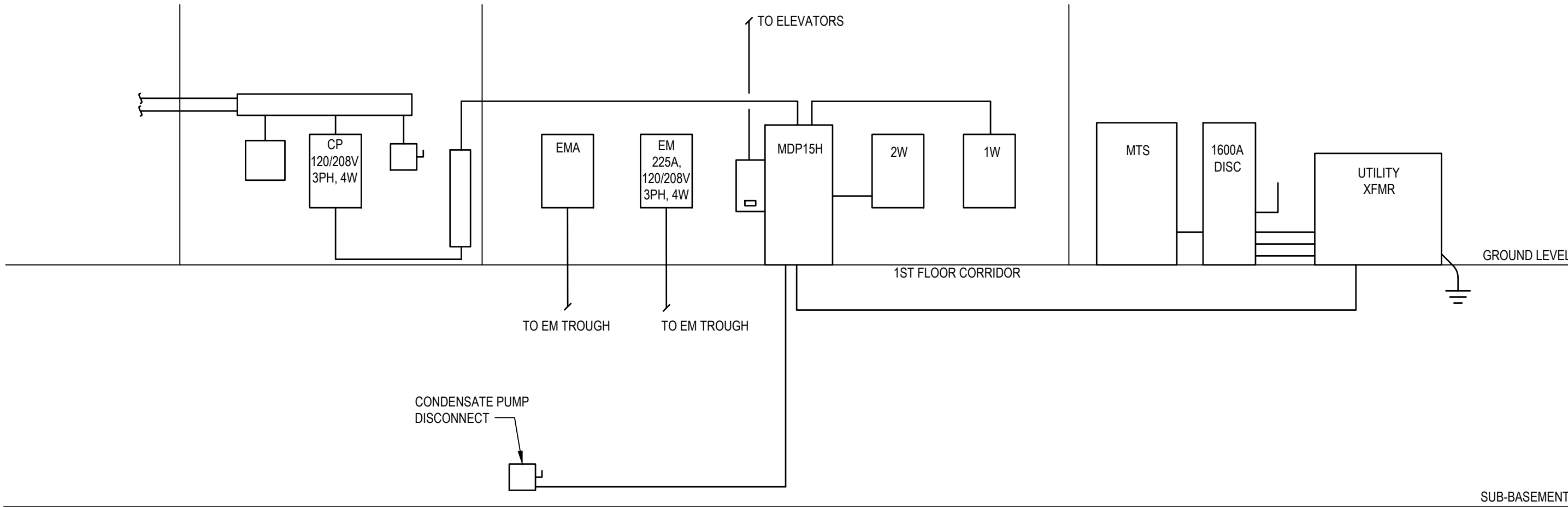
MECHANICAL ROOM PART PLAN - ELECTRICAL - NEW WORK

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

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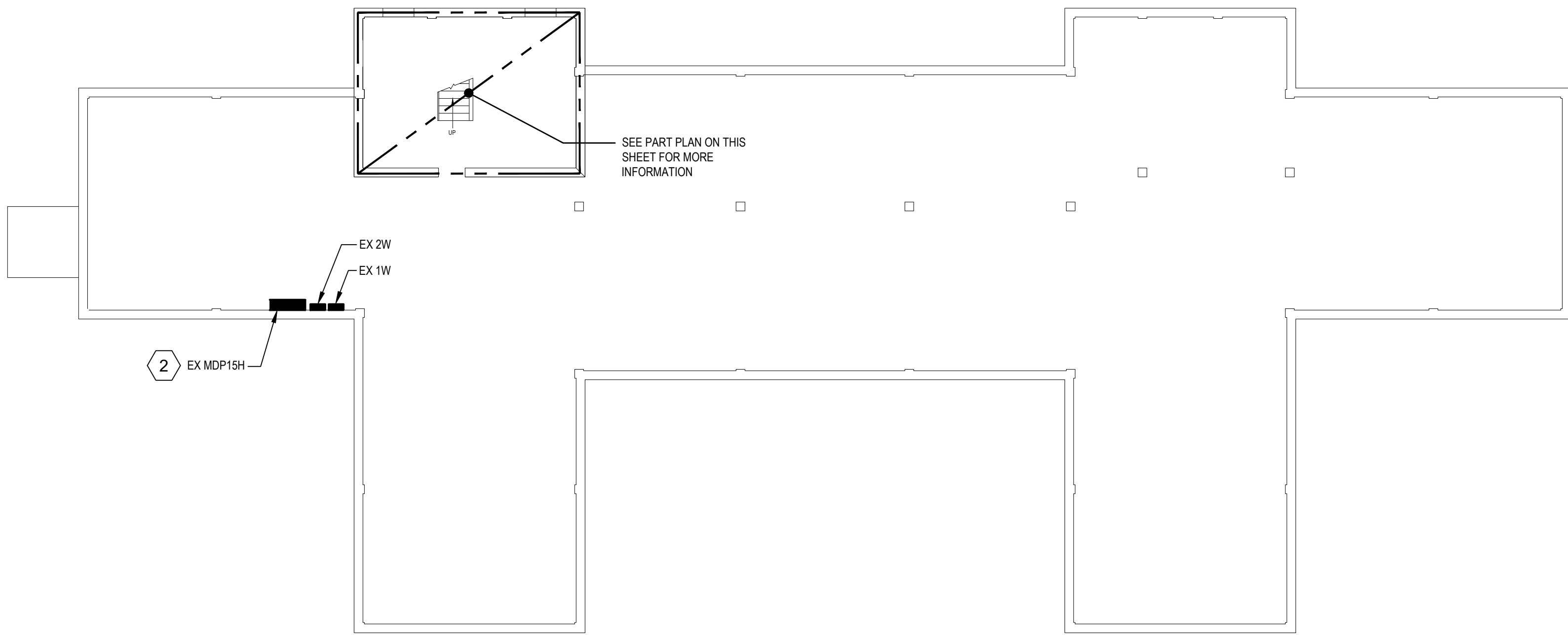
848



2

BLDG 15H - PARTIAL RISER DIAGRAM

NO SCALE



3

BASEMENT PLAN - BLDG 15H - ELECTRICAL

SCALE: 3/32" = 1'-0"

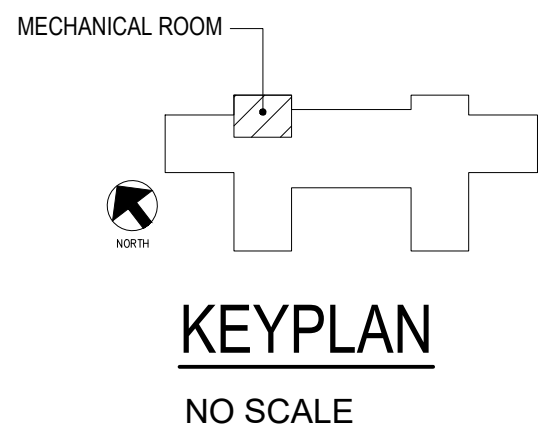
1680

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KEYPLAN

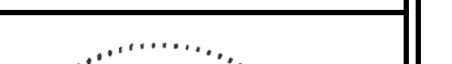

NO SCALE

05-4-10-8-21-4

SCALE: 3/32" = 1'-0"

01-1-2-4-8

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

		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management  VA U.S. Department of Veterans Affairs	Drawing Title	Phase	Project Title	Project Number		
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080  A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER (LANDSCAPE/ SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545	MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081			BASEMENT PLAN - BLDG 15H - ELECTRICAL - NEW WORK	100% SUBMISSION	UPGRADE STEAM SYSTEM PATIENT AREAS	512A5-21-304		
								Approved: Project Director	-	Location	Drawing Number		
										VAMC PERRY POINT	ES102		
										Issue Date	Checked	Drawn	
										02/02/2024	MC/NH	KW	
Revisions:	Date:												



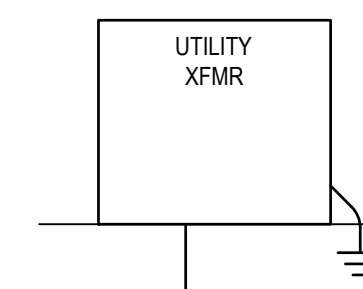
Ella Roth



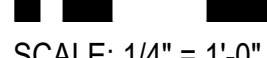
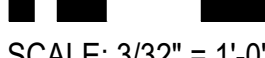
SCALE: 1/4" = 1'-0"



SCALE: 3/32" = 1'-0"

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NO SCALE

NO SCALE





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GENERAL NOTES

A.

EXISTING EQUIPMENT SHOWN IN AREA OF WORK IS EXISTING TO REMAIN UON.

B.

WORKING ON EXPOSED CONDUCTING PARTS IS NOT PERMITTED WITHOUT COR APPROVAL.

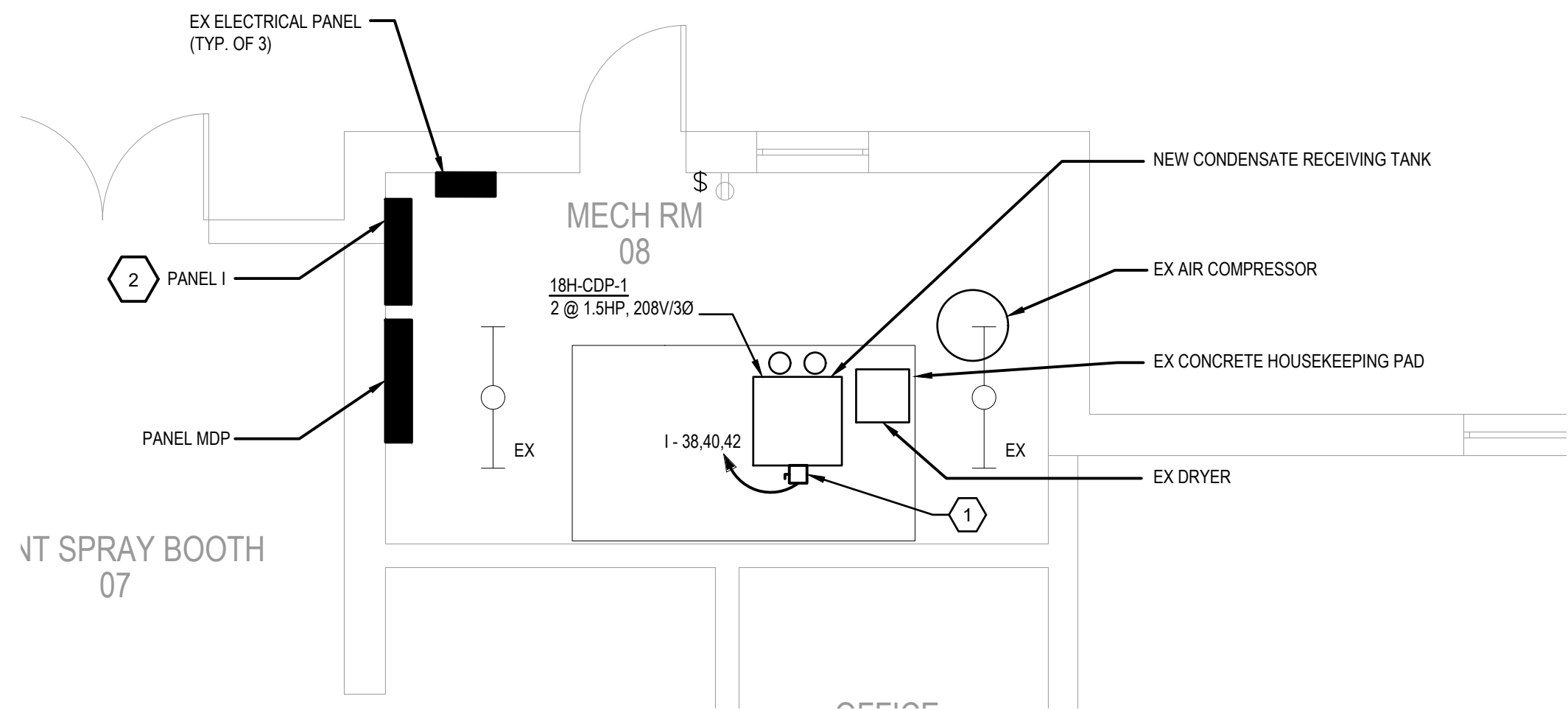
PLAN NOTES

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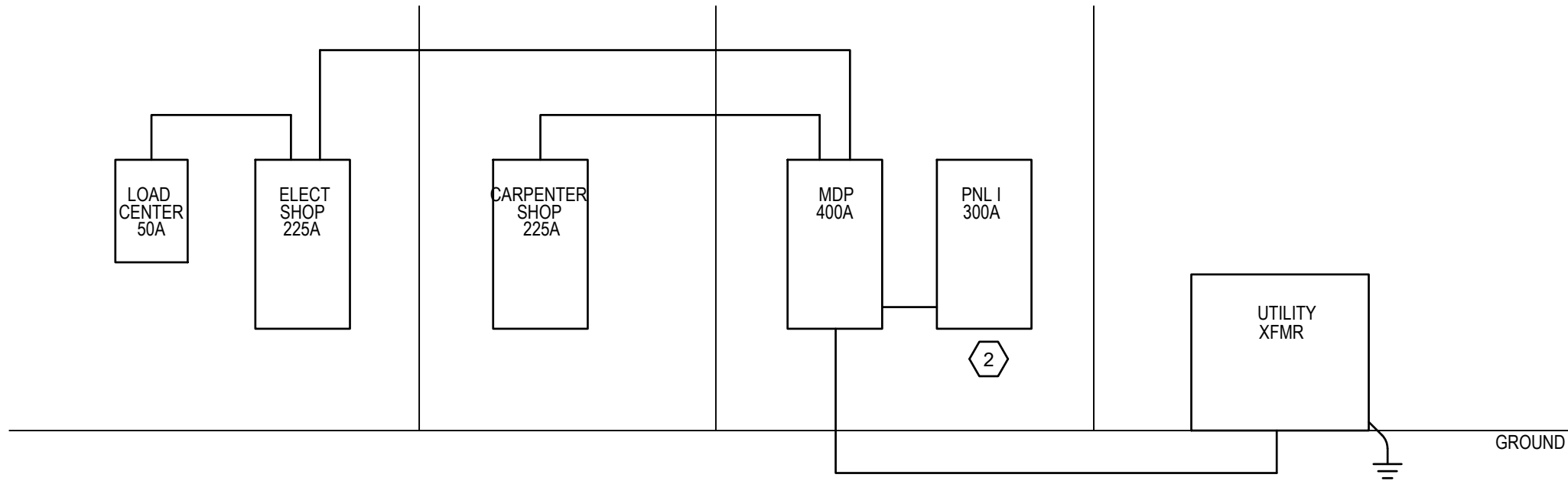
NEW CONDENSATE RECEIVING TANK WITH NEMA 2 UL LISTED CONTROL PANEL. EXTEND WIRE AND CONDUIT MATCHING EXISTING TO NEW LOCATION.

2

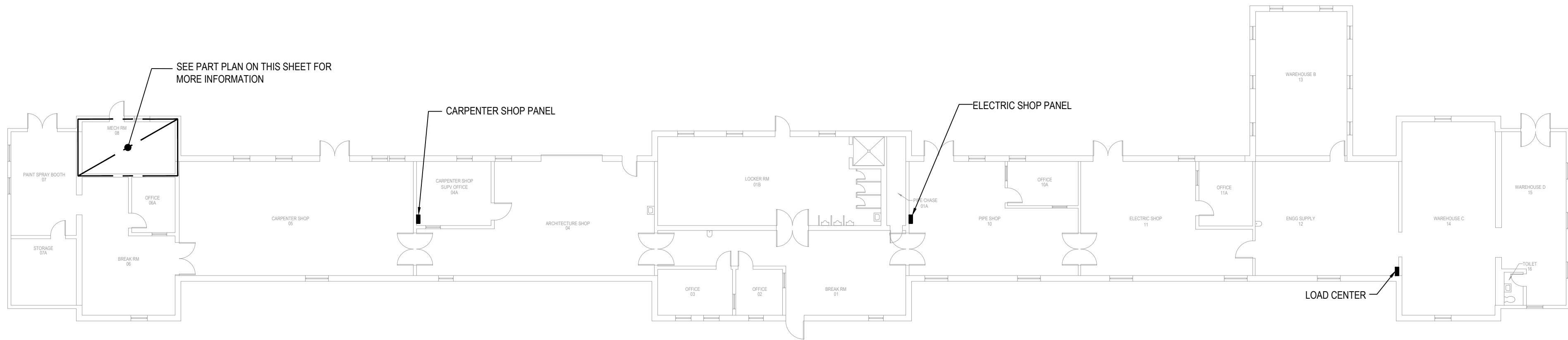
EXISTING PANEL SERVING EXISTING CONDENSATE RECEIVING TANK.



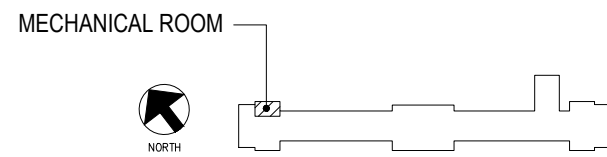
1 MECHANICAL ROOM PART PLAN - ELECTRICAL - NEW WORK  
SCALE: 1/4" = 1'-0"



2 BLDG 18H - PARTIAL RISER  
NO SCALE





3 FIRST FLOOR PLAN - BLDG 18H - ELECTRICAL  
SCALE: 1/16" = 1'-0"

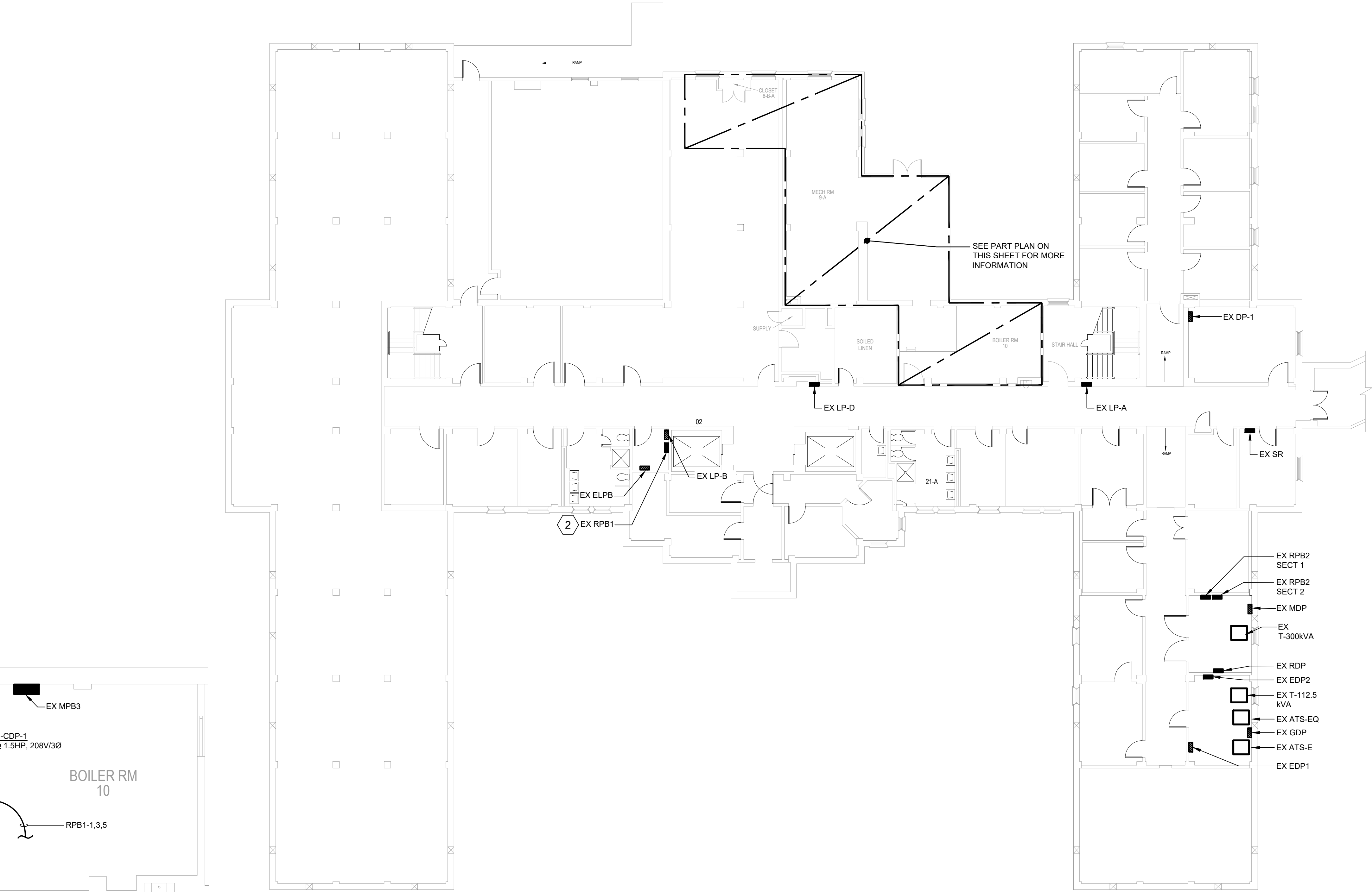


KEYPLAN  
NO SCALE

0' 4' 8' 16' 32'  
SCALE: 1/16" = 1'-0"

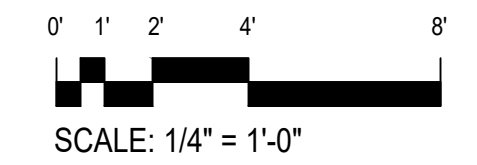
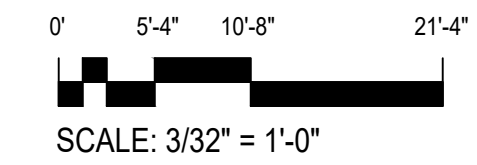
		SUBCONSULTANTS		ARCH./ENGINEER OF RECORD		STAMP		<div>Office of Construction and Facilities Management</div> <div>VA   U.S. Department of Veterans Affairs</div>		Drawing Title		Phase		Project Title		Project Number			
		<div>DELTA ENGINEERS, ARCHITECTS &amp; SURVEYORS</div> <div>ARCHITECTURAL SERVICES</div> <div>8401 CONNECTICUT AVE SUITE 350</div> <div>CHEVY CHASE, MARYLAND 20815</div> <div>301.718.0080</div> <div>A. MORTON THOMAS AND ASSOCIATES, INC.</div> <div>CIVIL ENGINEER, LANDSCAPE/ SURVEY</div> <div>700 KING FARM BOULEVARD, 3RD FLOOR</div> <div>ROCKVILLE, MARYLAND 20850</div> <div>301.881.2545</div>		<div>MORABITO CONSULTANTS, INC.</div> <div>STRUCTURAL ENGINEERING</div> <div>952 RIDGEBROOK ROAD, SUITE 1700</div> <div>SPARKS, MARYLAND 21152</div> <div>410.467.2377</div> <div>APEX COMPANIES, LLC</div> <div>INDUSTRIAL HYGIENIST</div> <div>15850 CRABBS BRANCH WAY, STE 200</div> <div>ROCKVILLE, MARYLAND 20855</div> <div>240.499.7325</div>		<div>PRIME A/E:</div> <div></div> <div>VETERAN DESIGN &amp; CONSTRUCTION INC.</div> <div>5523 RESEARCH PARK DRIVE SUITE 110</div> <div>BALTIMORE, MARYLAND 21228</div> <div>443.543.5081</div>				<div></div>		FIRST FLOOR PLAN - BLDG 18H - ELECTRICAL - NEW WORK		100% SUBMISSION		UPGRADE STEAM SYSTEM PATIENT AREAS		512A5-21-304	
																Building Number			
																18H			
Revisions:		Date:								Approved: Project Director				Location		Drawing Number			
												-		VAMC PERRY POINT		ES104			
														Issue Date		Checked			
														02/02/2024		MC/NH			
																Drawn			
																KW			





MECHANICAL ROOM PART PLAN - ELECTRICAL - NEW WORK  
SCALE: 1/4" = 1'-0"

**BASEMENT PLAN - BLDG 19H - ELECTRICAL**  
SCALE: 3/32" = 1'-0"



VA FORM 08-6231									
1	2	3	4	5	6	7	8	9	10



**GENERAL NOTES**

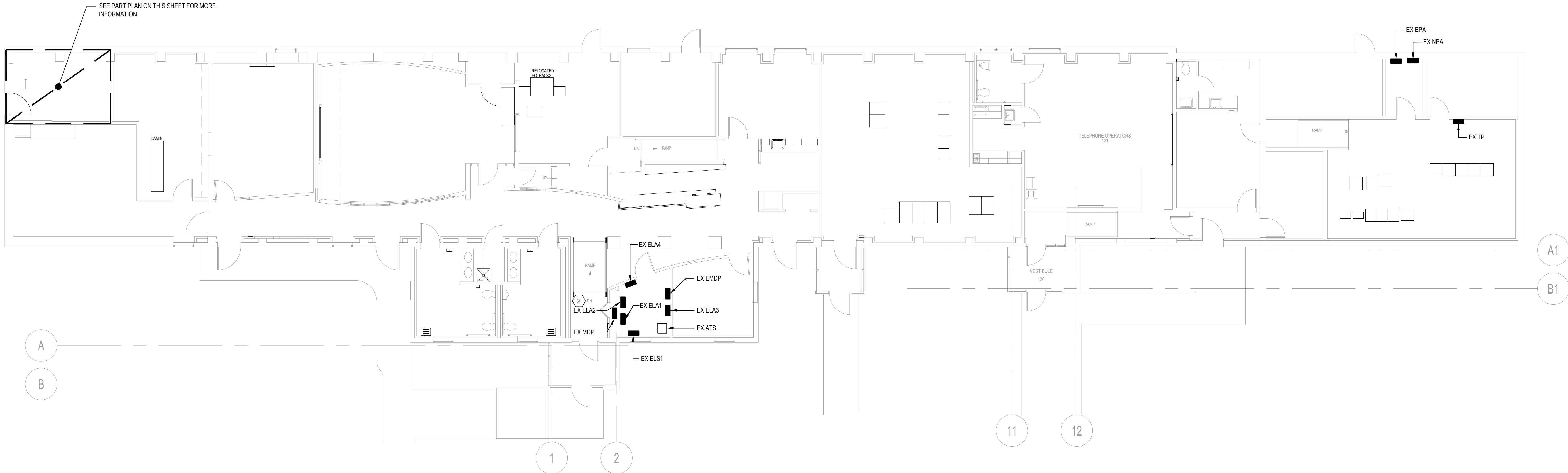
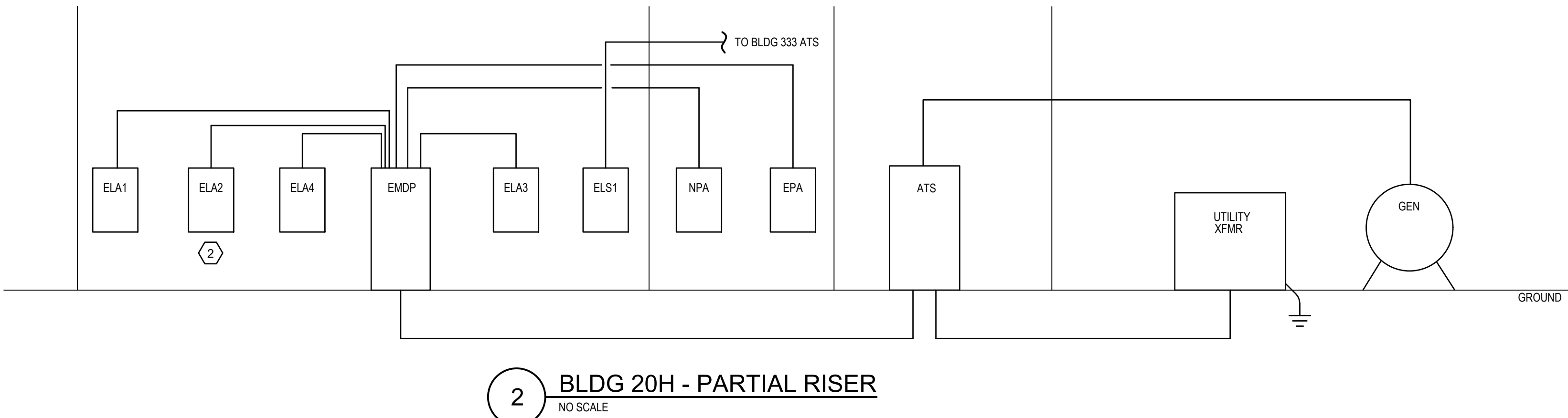
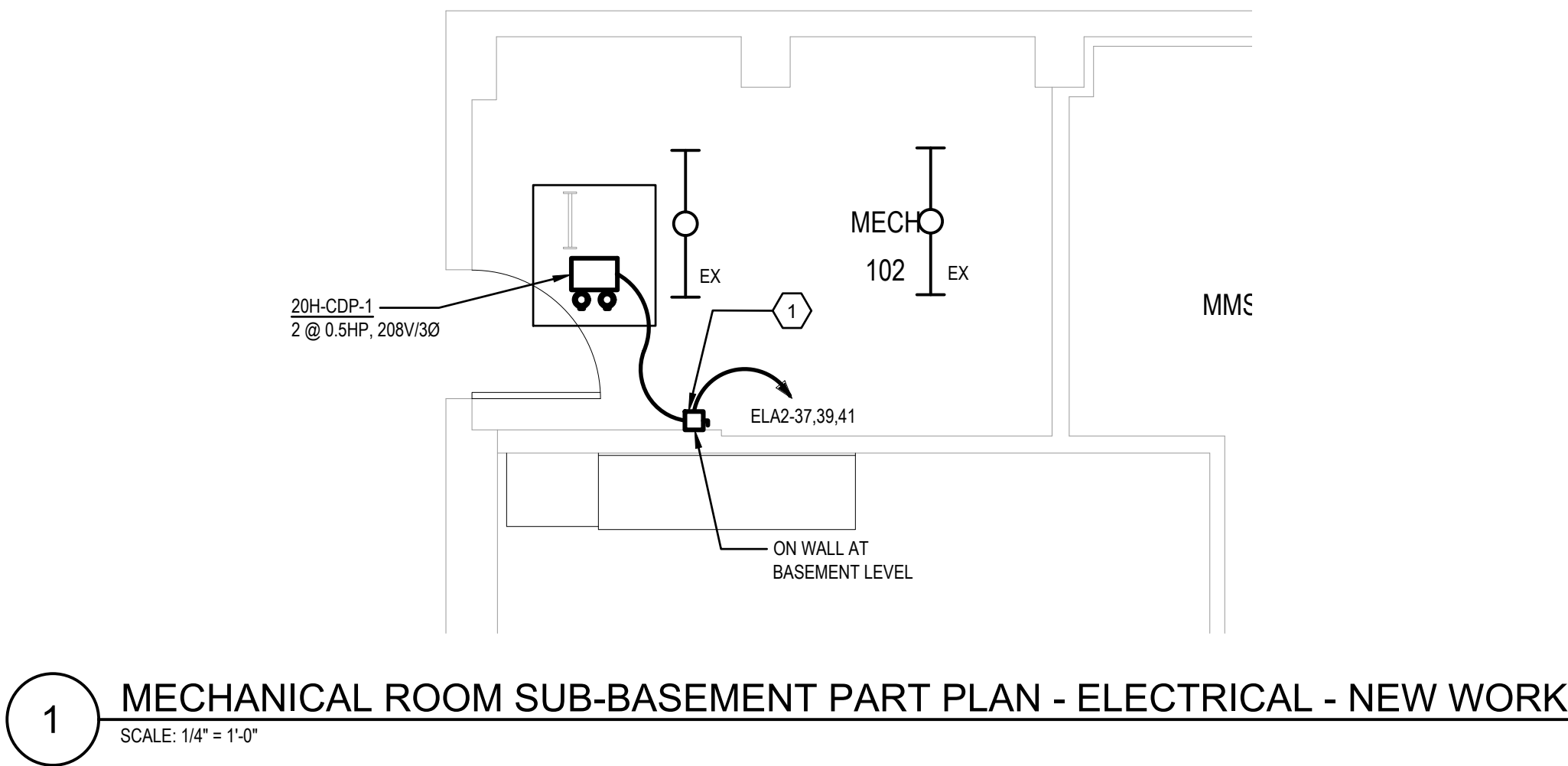
A. EXISTING EQUIPMENT SHOWN IN AREA OF WORK IS EXISTING TO REMAIN UNCHANGED.

B. WORKING ON EXPOSED CONDUCTING PARTS IS NOT PERMITTED WITHOUT CORRESPONDING APPROVAL.

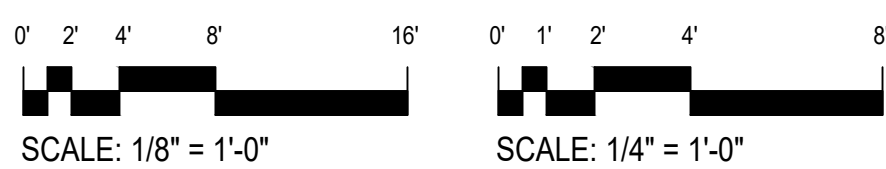
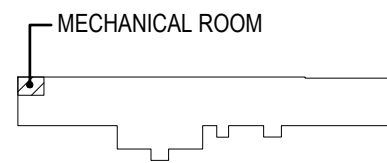
**PLAN NOTES**

1 NEW CONDENSATE RECEIVING TANK WITH NEMA 2 UL LISTED CONTROL PANEL. EXTEND WIRE AND CONDUIT MATCHING EXISTING TO NEW LOCATION.



2 EXISTING PANEL SERVING EXISTING CONDENSATE RECEIVING TANK.



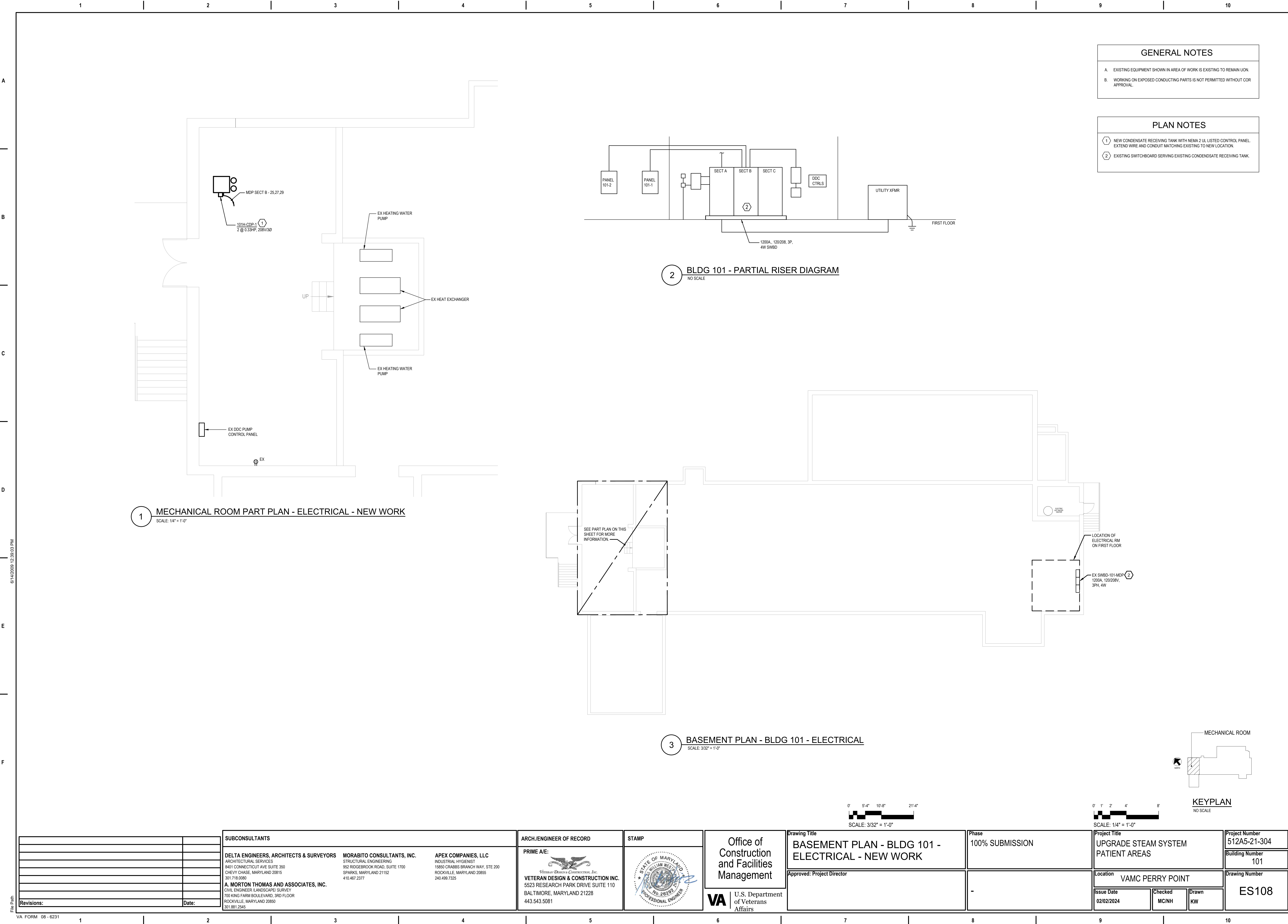
**3 FIRST FLOOR PLAN - BLDG 20H - ELECTRICAL**  
SCALE: 1/8" = 1'-0"



**KEYPLAN**  
NO SCALE

		SUBCONSULTANTS			ARCH./ENGINEER OF RECORD	STAMP	Office of Construction and Facilities Management	Drawing Title FIRST FLOOR PLAN - BLDG 20H - ELECTRICAL - NEW WORK	Phase 100% SUBMISSION	Project Title UPGRADE STEAM SYSTEM PATIENT AREAS	Project Number 512A5-21-304				
		DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325	PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081										
Revisions:		Date:	A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE/SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545				VA	U.S. Department of Veterans Affairs		-	Location VAMC PERRY POINT	Issue Date	Checked	Drawn	Drawing Number ES106
												02/02/2024	MC/NH	KW	







A

B

C

D

E

F

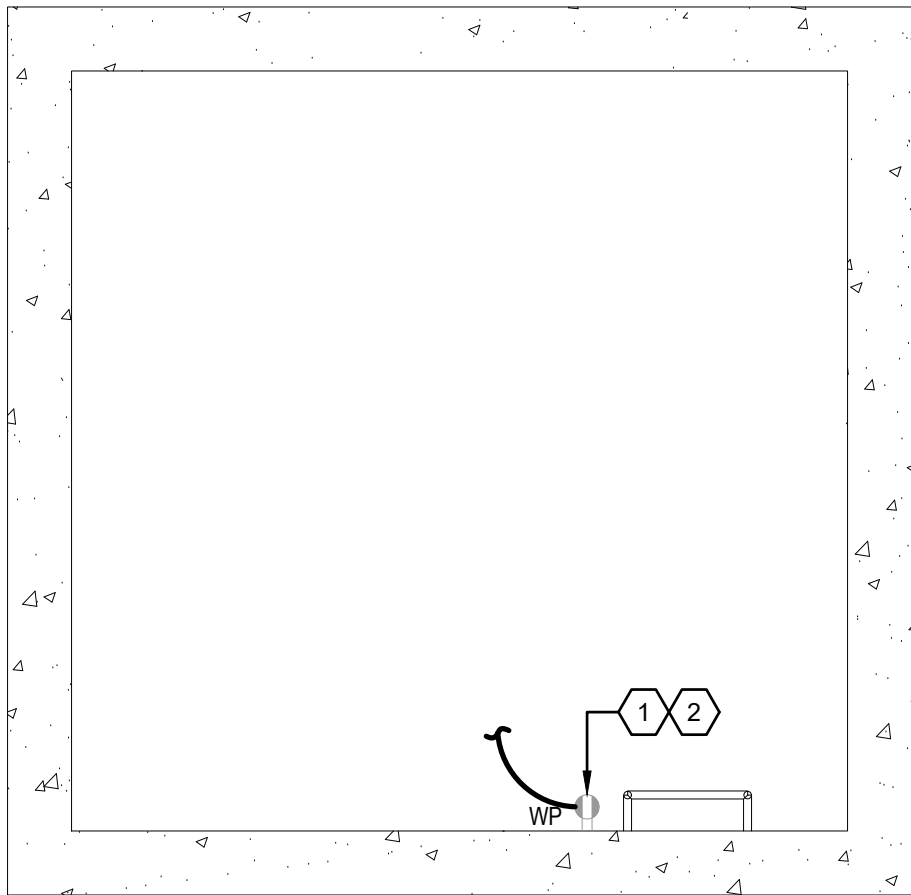
6/14/2024 12:39:03 PM

GENERAL NOTES

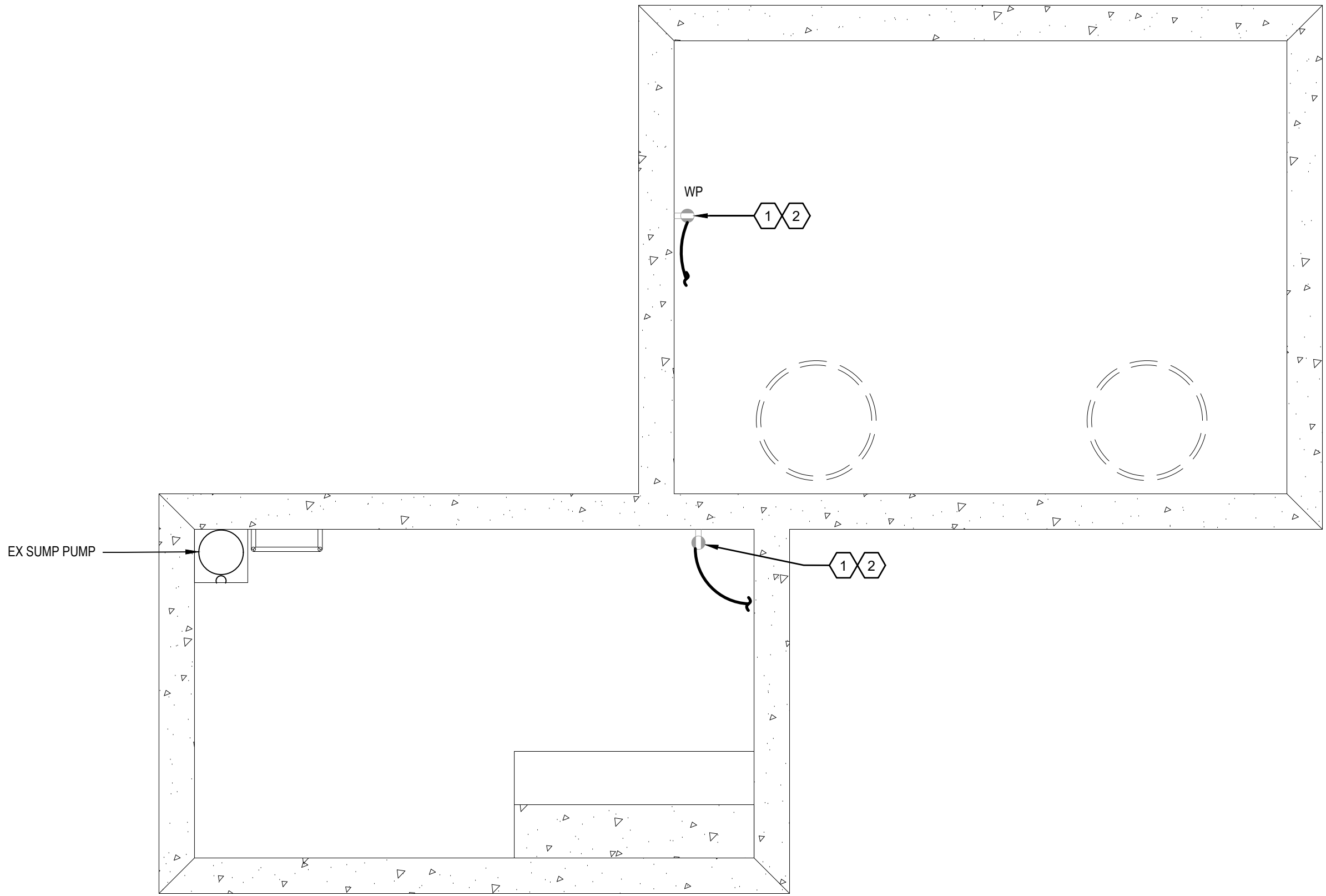
- A. REFER TO SITE PLAN ON ES002 FOR CONDUIT ROUTING FROM MANHOLE TO BUILDING.

PLAN NOTES

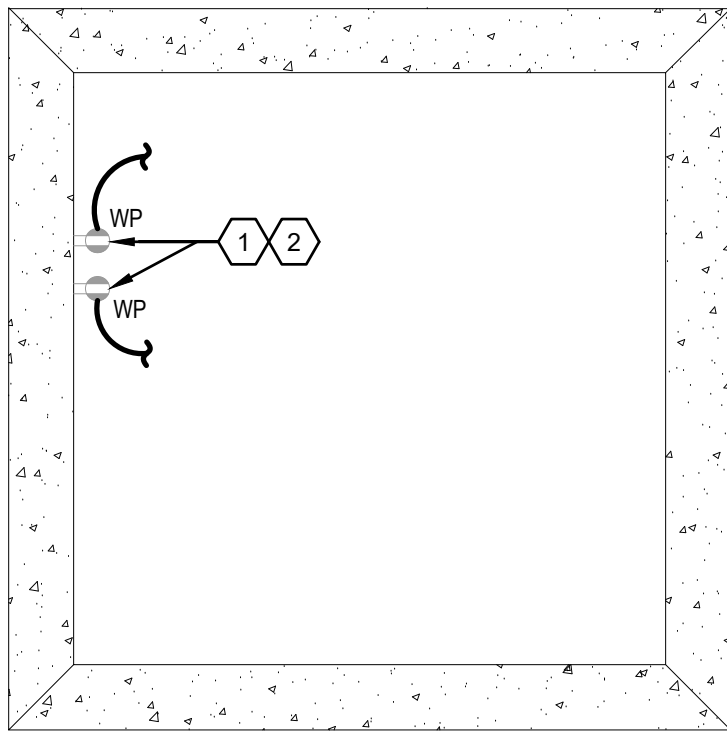
- 1 PROVIDE NEW WP, GFCI OUTLET. EXTEND WIRE AND CONDUIT MATCHING EXISTING TO NEW OUTLET LOCATION.
- 2 RECEPTACLE BASIS OF DESIGN FOR MANHOLES: LEVITON WETGUARD WATERTIGHT STRAIGHT BLADE OUTLET. CATALOG #80W49-D.



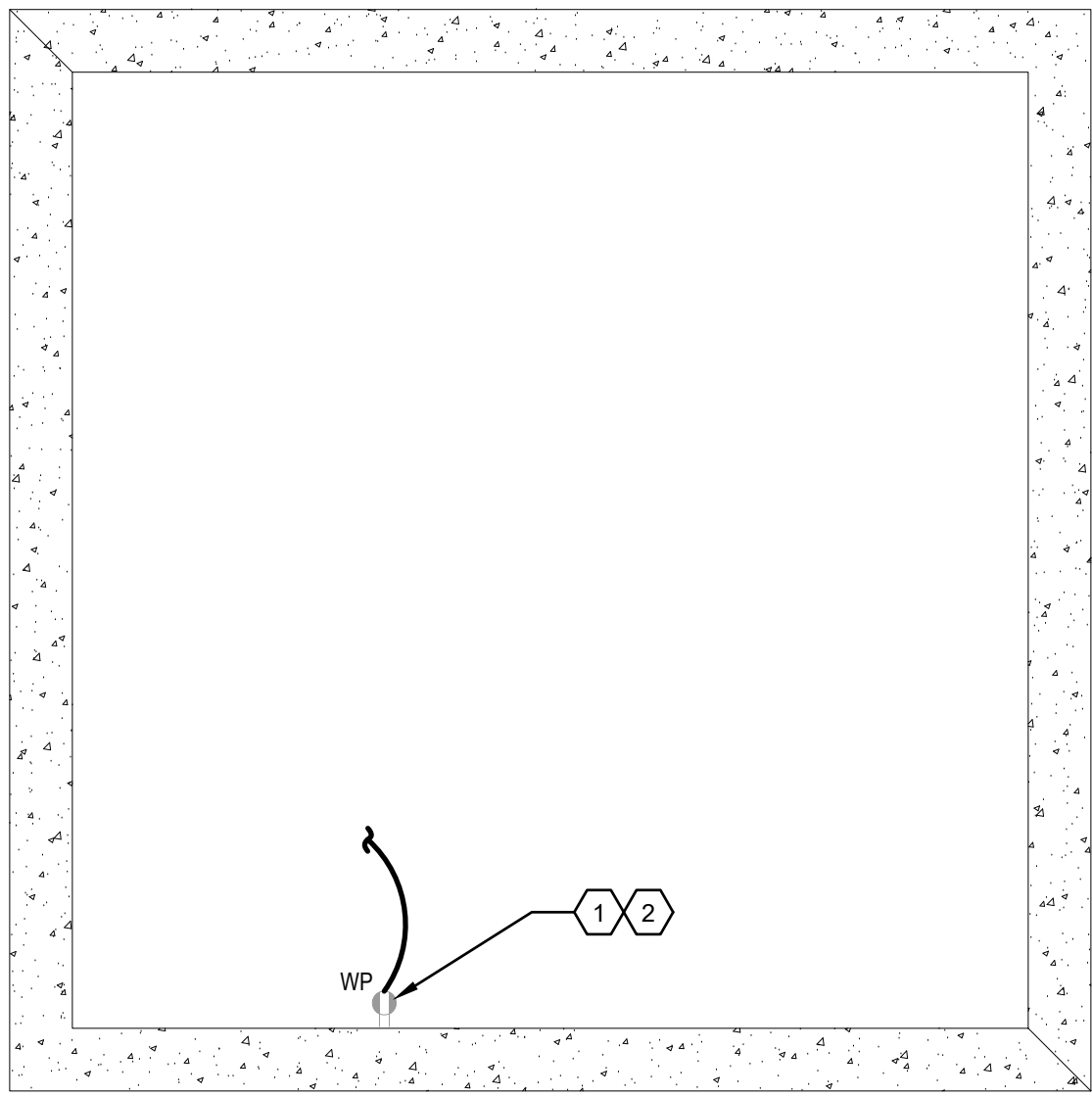
1 MANHOLE 1 PLAN  
SCALE: 1/2" = 1'-0"



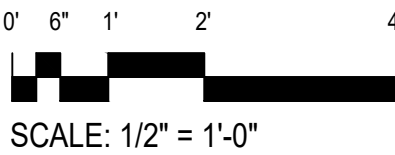
2 MANHOLE 6 PLAN  
SCALE: 1/2" = 1'-0"



3 MANHOLE 21 PLAN  
SCALE: 1/2" = 1'-0"



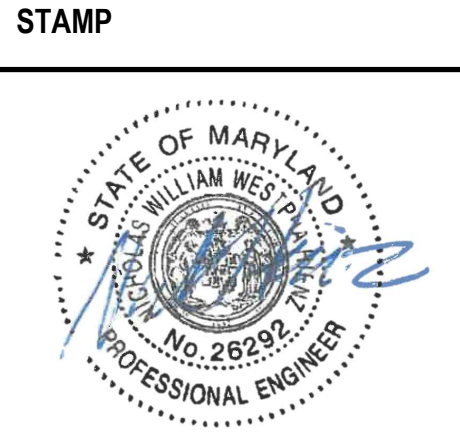
4 MANHOLE 19B PLAN  
SCALE: 1/2" = 1'-0"



Revisions:	Date:

SUBCONSULTANTS		
DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325
A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE/ SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		

ARCH./ENGINEER OF RECORD
PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081



Drawing Title MANHOLE PART PLANS - ELECTRICAL - NEW WORK
Approved: Project Director

Phase 100% SUBMISSION
-

Project Title		
UPGRADE STEAM SYSTEM PATIENT AREAS		
Location		
VAMC PERRY POINT		
Issue Date	Checked	Drawn
02/02/2024	MC/NH	KW

Project Number 512A5-21-304
Building Number --
Drawing Number ES201

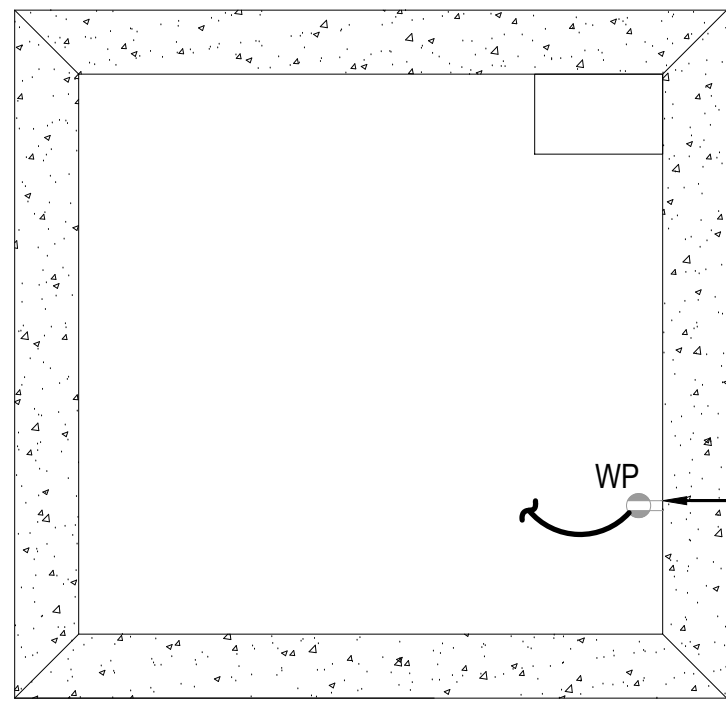


GENERAL NOTES

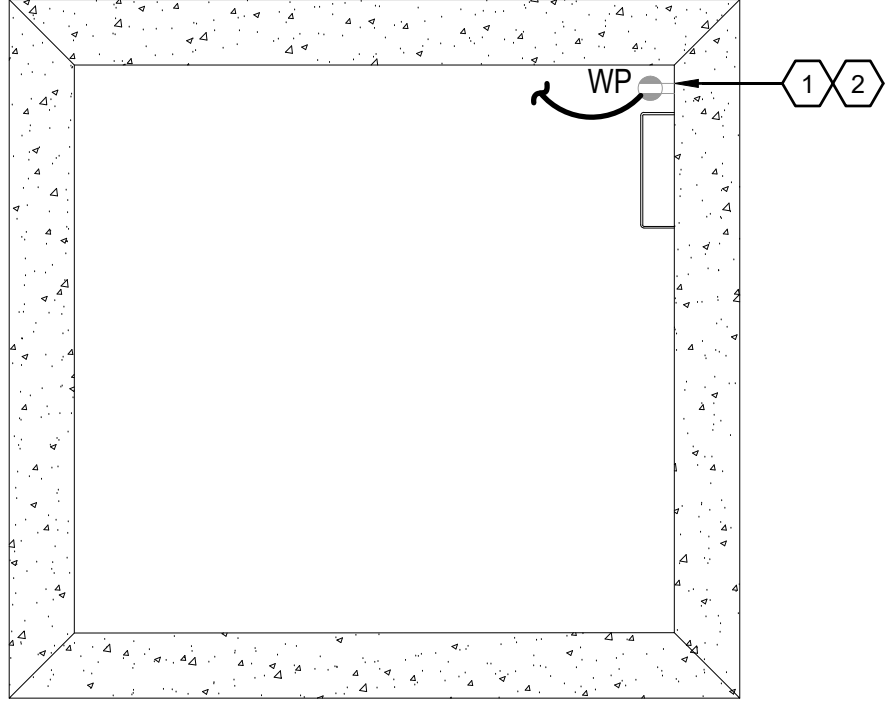
A. REFER TO SITE PLAN ON ES002 FOR CONDUIT ROUTING FROM MANHOLE TO BUILDING.

PLAN NOTES

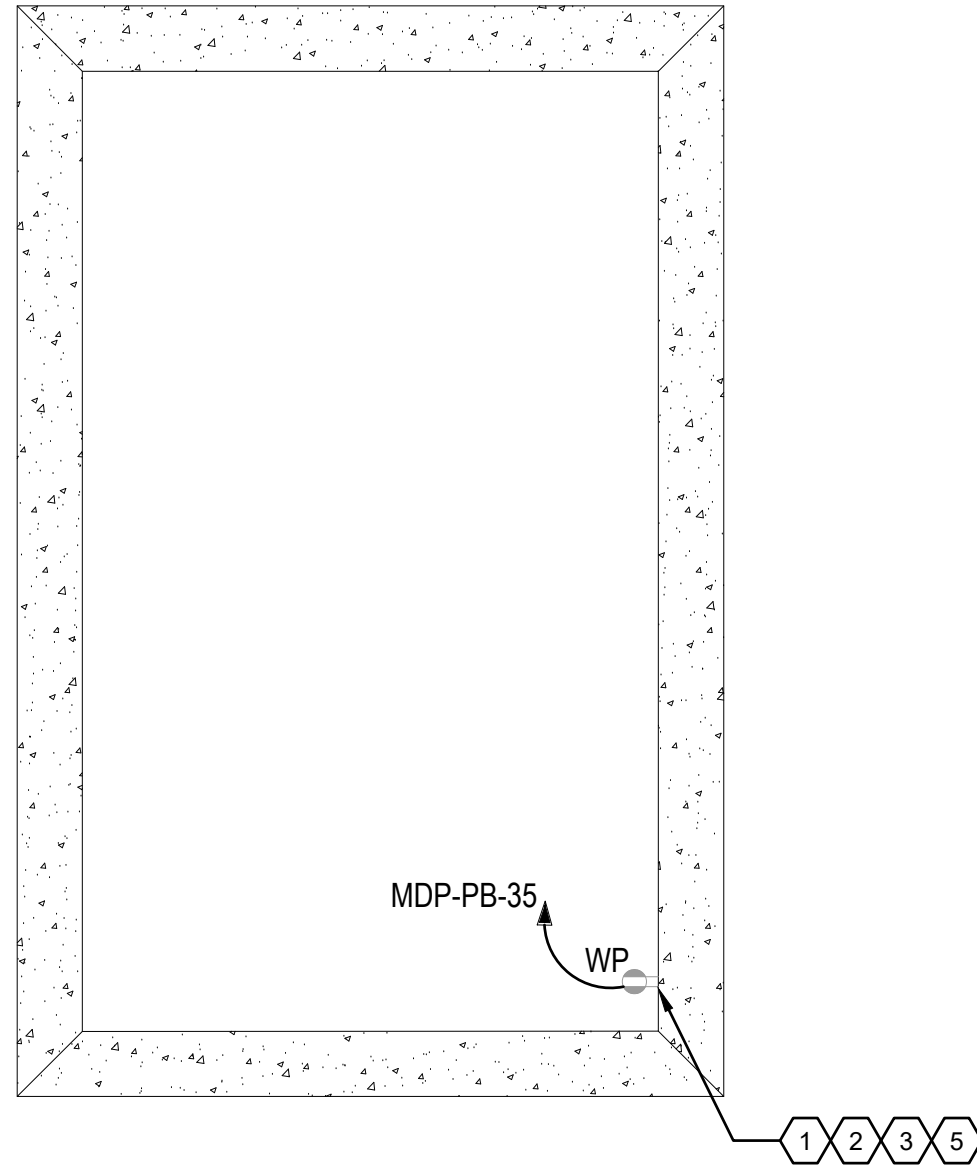
- 1 PROVIDE NEW WP, GFCI OUTLET. CONNECT NEW CIRCUIT TO BUILDING 11 PANELBOARD M1-11H. SEE SHEET ES002 FOR CONDUIT ROUTING.
- 2 RECEPTACLE BASIS OF DESIGN FOR MANHOLES: LEVITON WETGUARD WATERTIGHT STRAIGHT BLADE OUTLET. CATALOG #80W49-D.
- 3 REFER TO SHEET E603 FOR BUILDINGS, RISER DIAGRAMS AND PANELS SERVING NEW RECEPTACLES.
- 4 MOUNT RECEPTACLE NEXT TO LADDER, 1 FT BELOW MANHOLE OPENING.
- 5 PROVIDE NEW WP, GFCI OUTLET. CONNECT NEW CIRCUIT TO BUILDING 11 PANELBOARD M1-11H. SEE SHEET ES002 FOR CONDUIT ROUTING.



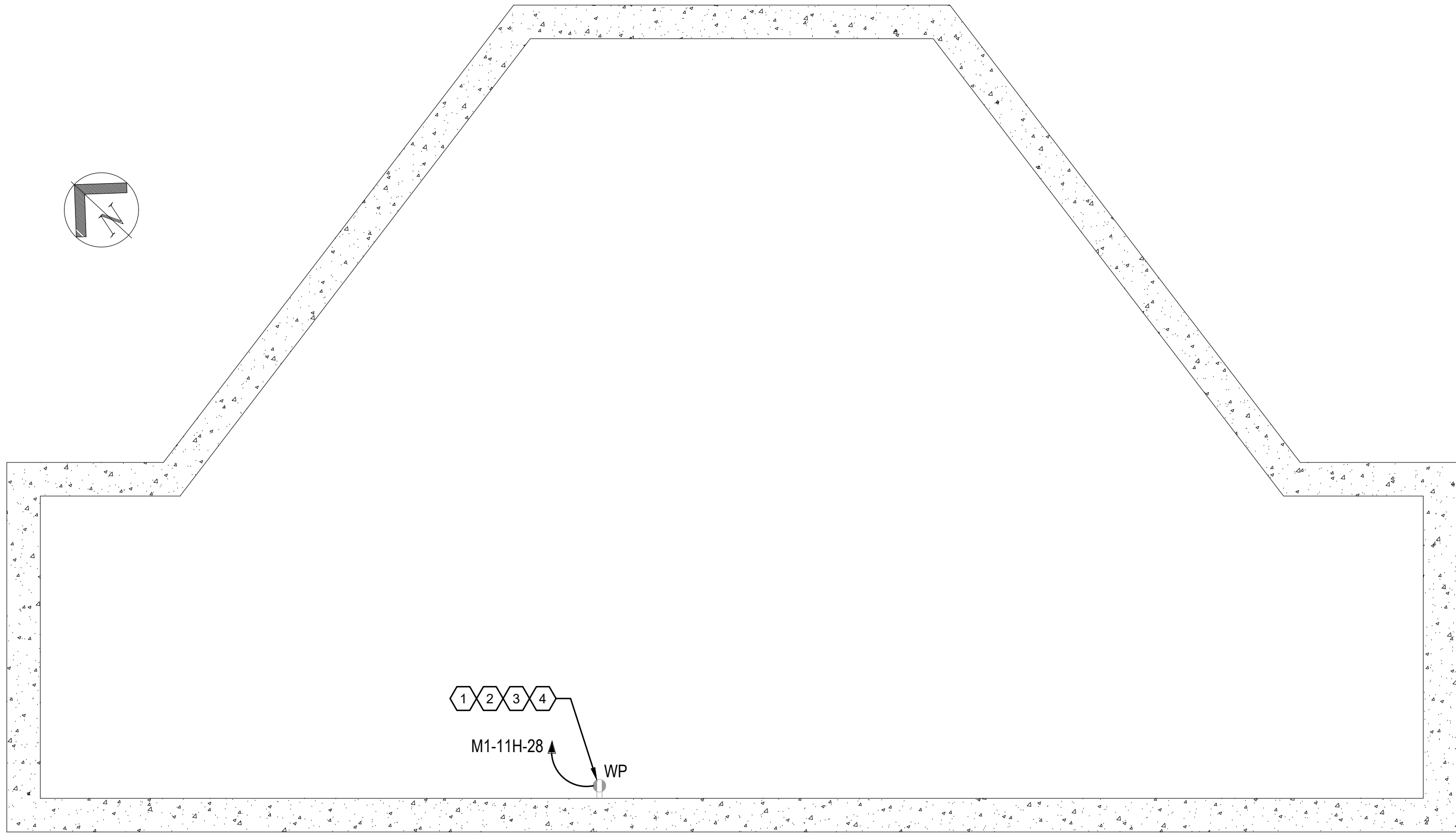
1 MANHOLE 22 PLAN  
SCALE: 1/2" = 1'-0"



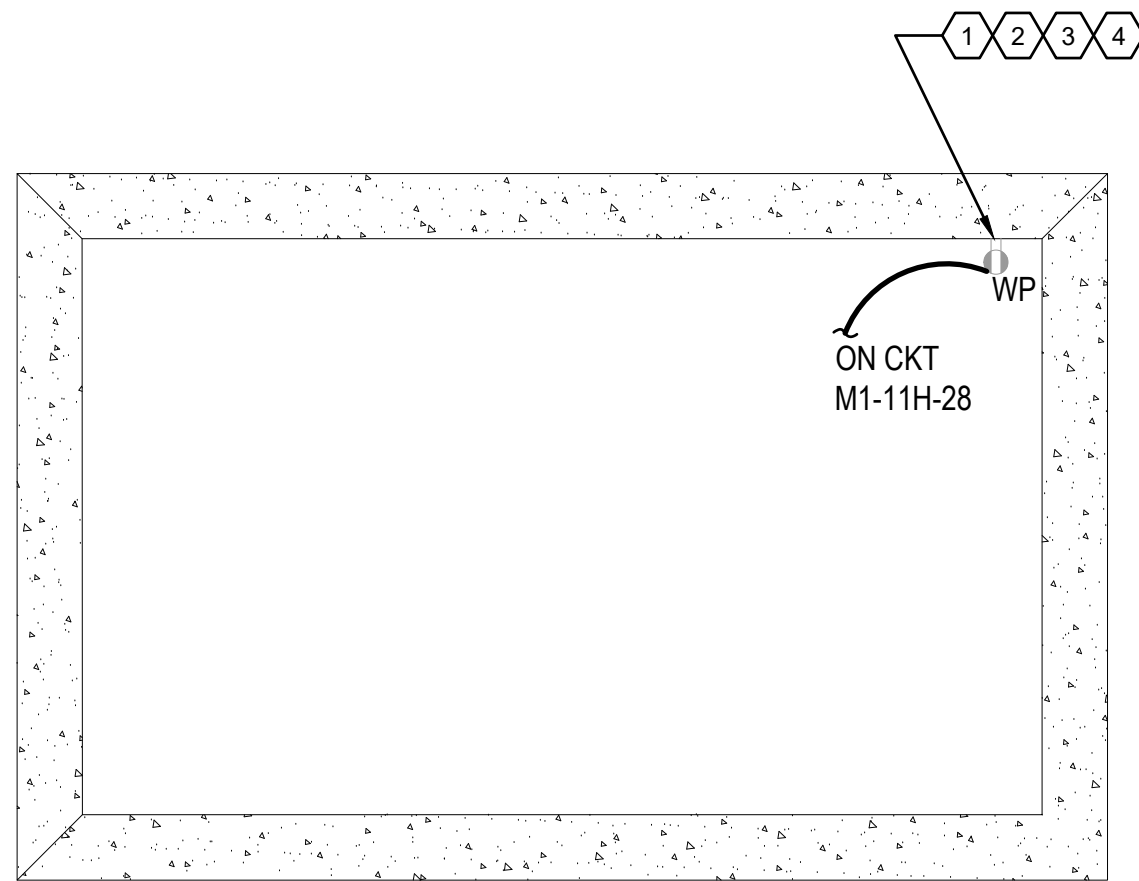
2 MANHOLE 24 PLAN  
SCALE: 1/2" = 1'-0"



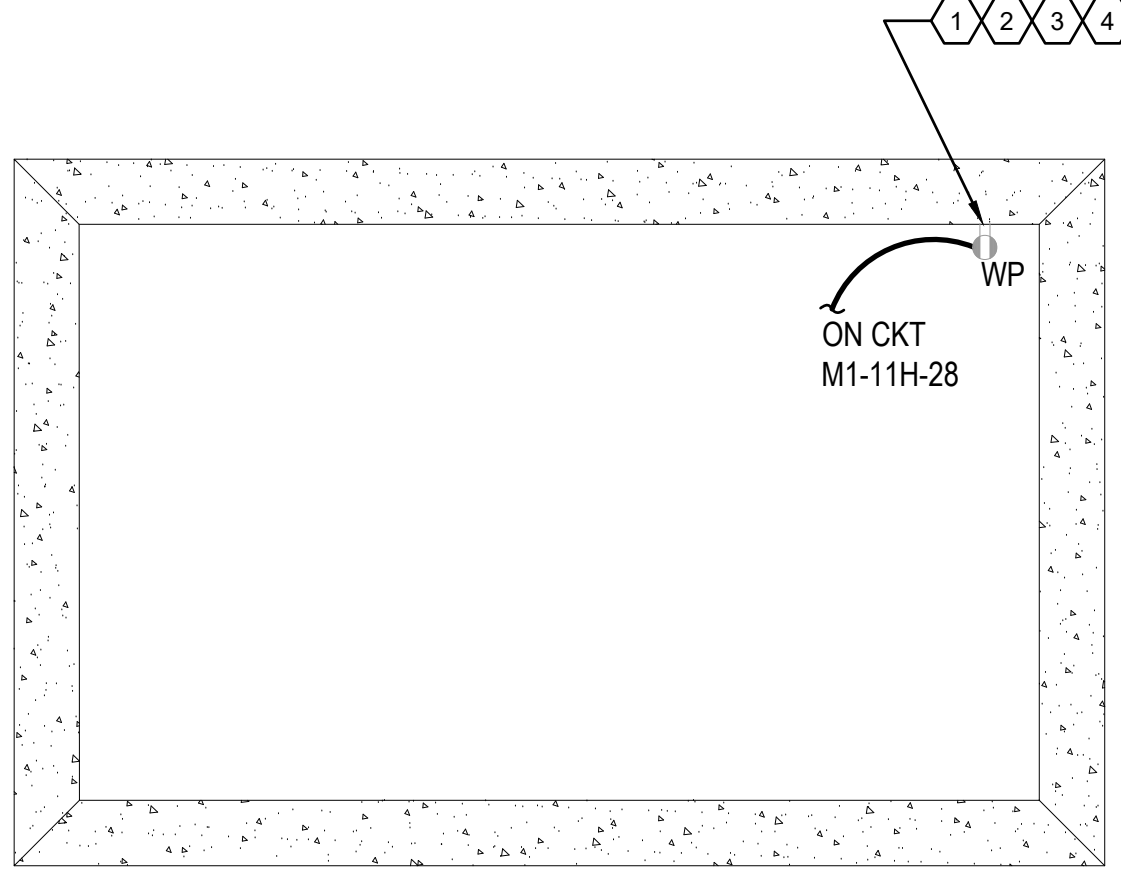
3 MANHOLE 9H PLAN  
SCALE: 1/2" = 1'-0"



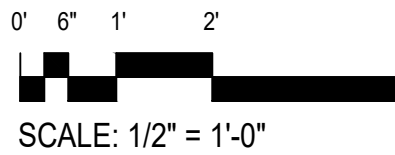
4 MANHOLE 25 PLAN  
SCALE: 1/2" = 1'-0"



5 MANHOLE 26 PLAN  
SCALE: 1/2" = 1'-0"



6 MANHOLE 27 PLAN  
SCALE: 1/2" = 1'-0"



SCALE: 1/2" = 1'-0"

Revisions:	Date:

SUBCONSULTANTS		
DELTA ENGINEERS, ARCHITECTS & SURVEYORS ARCHITECTURAL SERVICES 8401 CONNECTICUT AVE SUITE 350 CHEVY CHASE, MARYLAND 20815 301.718.0080	MORABITO CONSULTANTS, INC. STRUCTURAL ENGINEERING 952 RIDGEBROOK ROAD, SUITE 1700 SPARKS, MARYLAND 21152 410.467.2377	APEX COMPANIES, LLC INDUSTRIAL HYGIENIST 15850 CRABBS BRANCH WAY, STE 200 ROCKVILLE, MARYLAND 20855 240.499.7325
A. MORTON THOMAS AND ASSOCIATES, INC. CIVIL ENGINEER, LANDSCAPE/SURVEY 700 KING FARM BOULEVARD, 3RD FLOOR ROCKVILLE, MARYLAND 20850 301.881.2545		

ARCH./ENGINEER OF RECORD
PRIME A/E:  VETERAN DESIGN & CONSTRUCTION INC. 5523 RESEARCH PARK DRIVE SUITE 110 BALTIMORE, MARYLAND 21228 443.543.5081



Drawing Title MANHOLE PART PLANS - ELECTRICAL - NEW WORK
Approved: Project Director

Phase 100% SUBMISSION
-

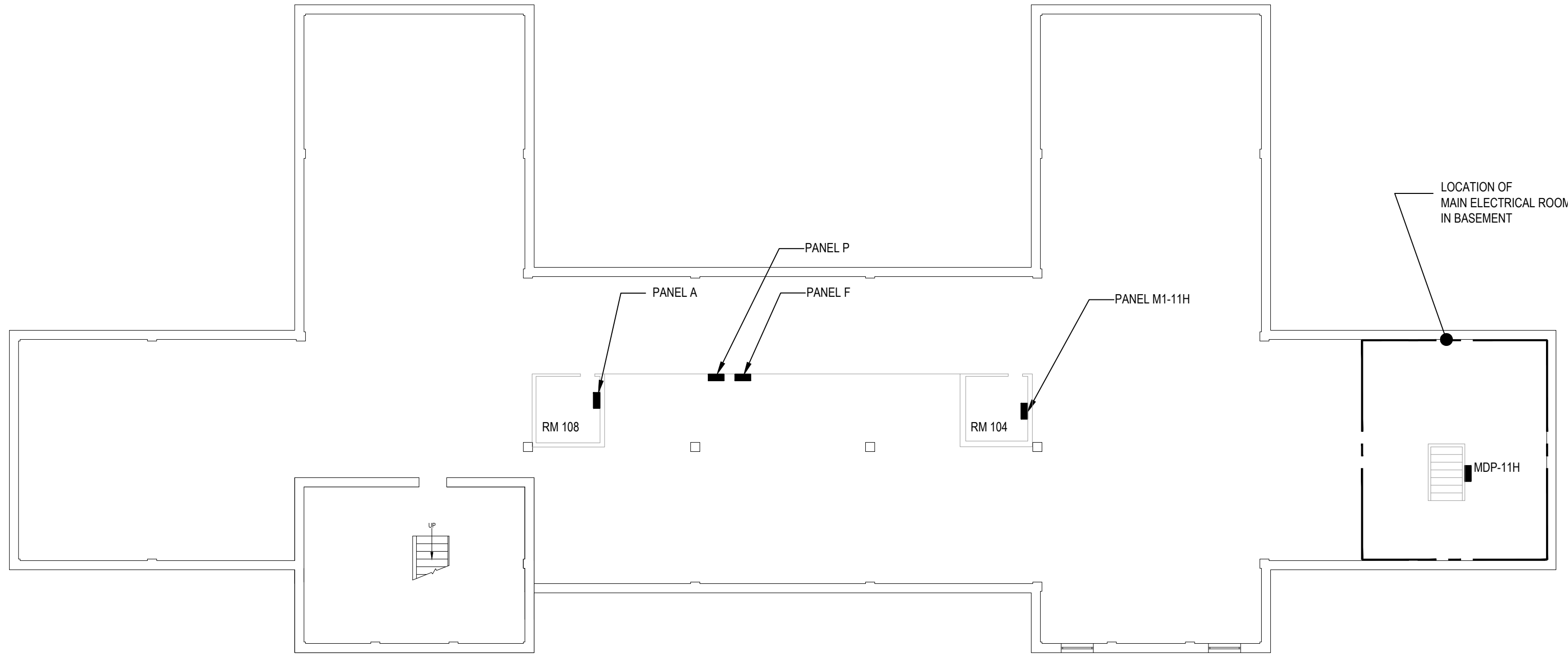
Project Title UPGRADE STEAM SYSTEM PATIENT AREAS
Location VAMC PERRY POINT
Issue Date 02/02/2024
Checked MC/NH
Drawn KW

Project Number 512A5-21-304
Building Number --
Drawing Number ES202

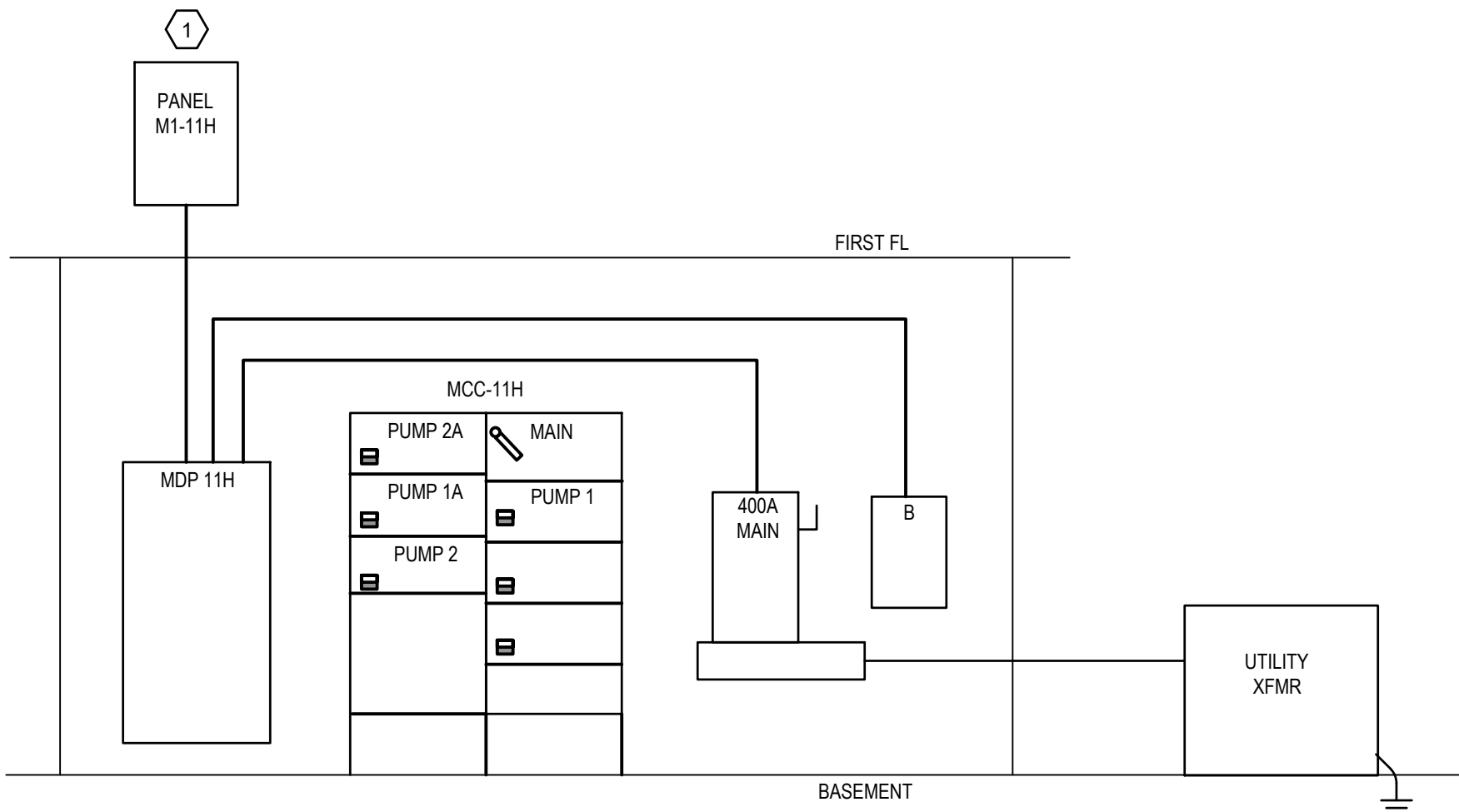


GENERAL NOTES	
A.	ALL PANELS ARE EXISTING TO REMAIN UNLESS NOTED OTHERWISE.
B.	PROVIDE NEW GFCI BREAKER FOR CIRCUITS SERVING RECEPTACLES AT ALL MANHOLES IN THIS SCOPE OF WORK.

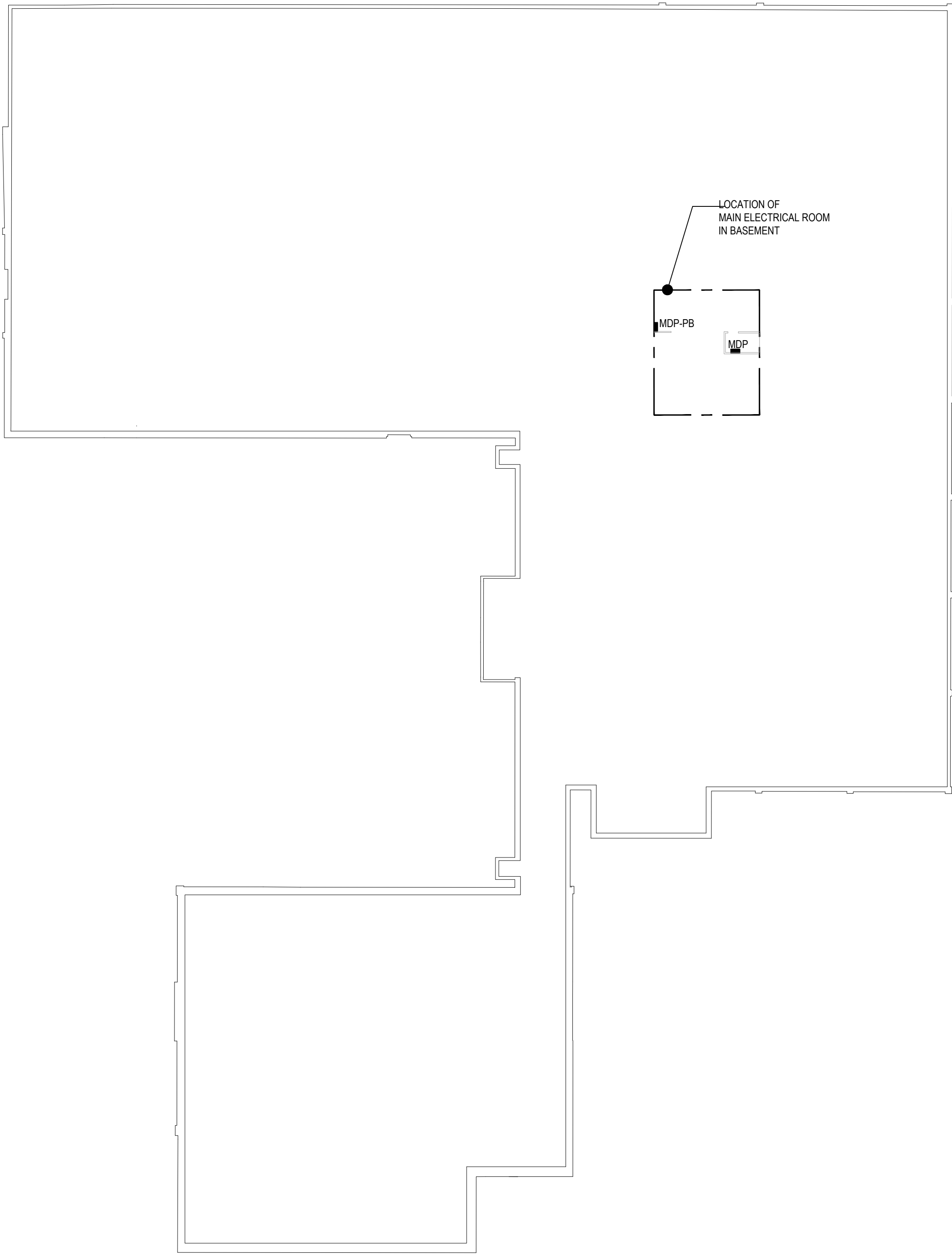
PLAN NOTES	
1	EXISTING PANEL SERVING MANHOLE RECEPTACLES.
2	PROVIDE NEW CIRCUIT BREAKER FOR CIRCUIT BREAKERS INDICATED IN BOLD PRINT.



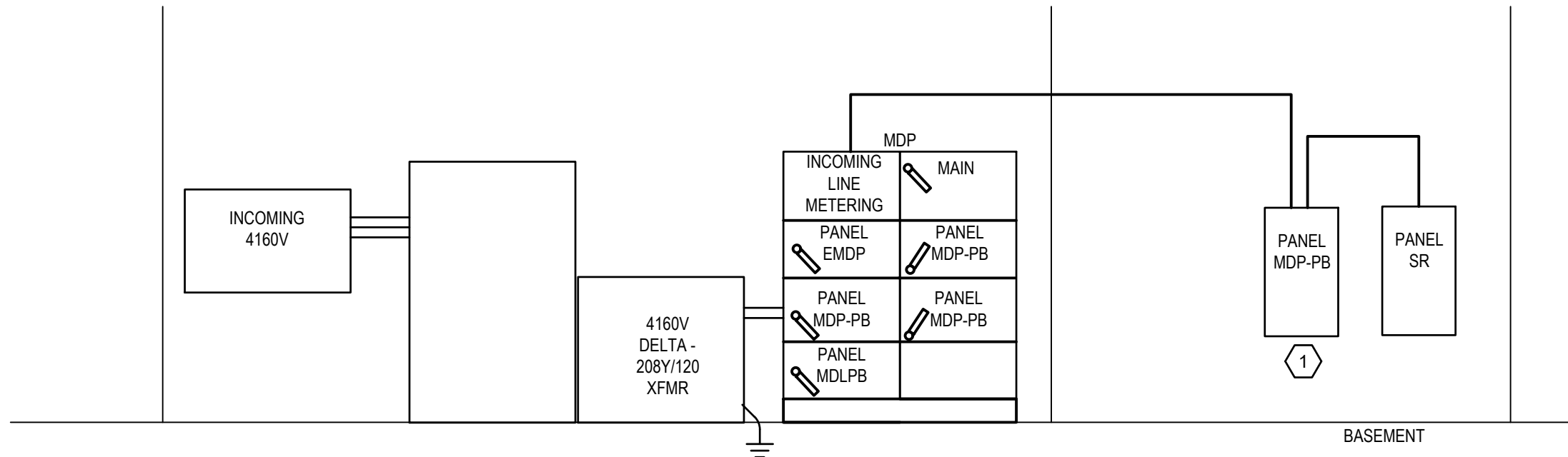
1 FIRST FLOOR PLAN - BLDG 11H - ELECTRICAL  
SCALE: 3/32" = 1'-0"



2 BLDG 11H - PARTIAL RISER  
NO SCALE



3 FIRST FLOOR PLAN - BUILDING 314B - ELECTRICAL  
SCALE: 1/16" = 1'-0"



4 BLDG 314B - PARTIAL RISER  
NO SCALE

SCHEDULE OF PANEL M1-11H																																
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4										BUS: 100A MAIN: MCB A/C: EX					POLES: 42 SECTION: 1 OF 1 FDR. ENTRY: BOTTOM					ENCLOSURE: NEMA 1 LOCATION: BLDG. 11H SOURCE: MDP-11												
C K T	EQUIPMENT SERVED	LOAD (KVA)				BKR.	NG (No.-AWG SZ)							C K T	EQUIPMENT SERVED	LOAD (KVA)				BKR.	NG (No.-AWG SZ)											
		PH. A	PH. B	PH. C	TRIP (AMP)		P	PH.	NEUT.	GRD.	C.	PH. A	PH. B			PH. C	TRIP (AMP)	P	PH.		NEUT.	GRD.	C.									
1	FCU RMS 112A & 112B	0.8			20	1	#12	#12	#12	3/4"	2	FCU RMS 103C, 103D	0.6			20	1	#12	#12	#12	3/4"	4	FCU HALLWAY & RM 103	0.6			20	1	#12	#12	#12	3/4"
3	FCU RM 112C		0.8		20	1	#12	#12	#12	3/4"	6	FCU RM 103B	0.8		0.8	20	1	#12	#12	#12	3/4"	8	FCU RM 103A	0.8		0.8	20	1	#12	#12	#12	3/4"
5	FCU RMS 106, 107, 111			0.8	20	1	#12	#12	#12	3/4"	10	FCU RM 103	0.8		0.8	20	1	#12	#12	#12	3/4"	12	CU-1 OUTDOOR UNIT	0.5		0.5	20	2	#12	#12	#12	3/4"
7	RCPT-PRINTER	0.4			20	1	#12	#12	#12	3/4"	14	CH-1 HALL, CH-2 UTILITY CL	0.2		0.8	20	1	#12	#12	#12	3/4"	16	CU-2 OUTDOOR UNIT	0.5		0.5	20	2	#12	#12	#12	3/4"
9	FCU RMS 113A, 113B		0.6		20	1	#12	#12	#12	3/4"	18	EF-3-BASEMENT	0.2		0.0	20	1	#12	#12	#12	3/4"	20	GFCI RCPT-BASEMENT	0.2		0.5	20	1	#12	#12	#12	3/4"
11	SPARE			0.0	30	1					22	SPARE			0.0	20	1	#12	#12	#12	3/4"	24	GFCI RCPT-OUTDOOR	0.2		0.5	20	2	#12	#12	#12	3/4"
13	FCU RMS 113C, 114			0.8	20	1	#12	#12	#12	3/4"	26	RCPTS-RM 103B	0.6		0.6	20	1	#12	#12	#12	3/4"	28	CONTROL PANEL	0.4		0.4	20	1	#12	#12	#12	3/4"
15	GFCI RCPT-BASEMENT				20	1	#12	#12	#12	3/4"	30	RCPTS-RM 103B	0.6		0.6	20	1	#12	#12	#12	3/4"	32	SPARE	0.0		0.0	20	1	#12	#12	#12	3/4"
17	RCPTS-RM 103B		0.6		20	1	#12	#12	#12	3/4"	32	RCPTS-RM 103A	0.6		0.6	20	1	#12	#12	#12	3/4"	34	SPARE	0.0		0.0	20	1	#12	#12	#12	3/4"
19	RCPTS-RM 103B		0.6		20	1	#12	#12	#12	3/4"	34	RCPTS-RM 103D	0.6		0.6	20	1	#12	#12	#12	3/4"	36	SPARE	0.0		0.0	20	1	#12	#12	#12	3/4"
21	RCPTS-RM 103A		0.6		20	1	#12	#12	#12	3/4"	36	RCPTS-RM 103D	0.6		0.6	20	1	#12	#12	#12	3/4"	38	RCPTS-MANHOLE	0.8		0.8	20	1	#6	#6	#10	1"
23	RCPTS-RM 103D		0.6		20	1	#12	#12	#12	3/4"	38	SPARE			0.0	20	1	#12	#12	#12	3/4"	40	SPARE	0.0		0.0	20	1	#12	#12	#12	3/4"
25	RCPTS-RM 103A		0.6		20	1	#12	#12	#12	3/4"	40	SPARE			0.0	20	1	#12	#12	#12	3/4"	42	SPARE	0.0		0.0	20	1	#12	#12	#12	3/4"
27	RCPTS-RM 103D		0.6		20	1	#12	#12	#12	3/4"					0.0	20	1	#12	#12	#12	3/4"			0.0		0.0	20	1	#12	#12	#12	3/4"
29	RCPTS-RM 103A		0.6		20	1	#12	#12	#12	3/4"					0.0	20	1	#12	#12	#12	3/4"			0.0		0.0	20	1	#12	#12	#12	3/4"
31	RCPTS-103D, 104		0.6		20	1	#12	#12	#12	3/4"					0.0	20	1	#12	#12	#12	3/4"			0.0		0.0	20	1	#12	#12	#12	3/4"
33	SPARE		0.0		20	1									0.0	20	1	#12	#12	#12	3/4"			0.0		0.0	20	1	#12	#12	#12	3/4"
35	UH-BASEMENT			0.5	20	1	#12	#12	#12	3/4"					0.0	20	1	#12	#12	#12	3/4"			0.0		0.0	20	1	#12	#12	#12	3/4"
37	SPARE		0.0		20	1									0.0	20	1	#12	#12	#12	3/4"			0.0		0.0	20	1	#12	#12	#12	3/4"
39	SPARE		0.0		20	1									0.0	20	1	#12	#12	#12	3/4"			0.0		0.0	20	1	#12	#12	#12	3/4"
41	SPARE		0.0		20	1									0.0	20	1	#12	#12	#12	3/4"			0.0		0.0	20	1	#12	#12	#12	3/4"
SUBTOTAL		3	3	4							SUBTOTAL		2	3	2																	
CONNECTED LOAD:						KVA						NOTES:						THE KVA SHOWN.														
PHASE A:						5.1						43 AMP																				
PHASE B:						5.7						48 AMP																				
PHASE C:						5.9						49 AMP																				
TOTAL						16.7						LOAD CALCULATIONS																				
												LIGHTING 100%						0.0														
												RECEPTACLE LOAD @ 100%						5.8														
												Remainder @ 50%						0														
												OTHER CONT. LOADS 100%						10.9														
												TOTAL						16.7														

SCHEDULE OF PANEL MDP-PB																																			
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4									BUS: 600A MAIN: MLO A/C: EX									POLES: 42 SECTION: 1 OF 1 FDR. ENTRY: BOTTOM									ENCLOSURE: NEMA 1 LOCATION: BLDG. 11H SOURCE: MDP								
C K T	LOAD (KVA)				BKR.	NG (No.-AWG SZ)				C K T	LOAD (KVA)				BKR.	NG (No.-AWG SZ)				C K T															
	EQUIPMENT SERVED	PH. A	PH. B	PH. C		TRIP (AMP)	P	PH.	NEUT.		GRD.	C.	EQUIPMENT SERVED	PH. A		PH. B	PH. C	TRIP (AMP)	P		PH.	NEUT.	GRD.	C.											
1	SPACE	0.0								2	SPACE	0.0																							
3	SPACE		0.0							4	SPACE		0.0																						
5	SPACE			0.0						6	SPACE			0.0																					
7	SPACE	0.0								8	SPACE	0.0																							
9	EXISTING		3.0				#6		#10	1"	10	PANEL ME		6.0				#10	#10	#6	2"														
11				3.0	60	3					12				6.0		150	3																	
13			3.0								14			6.0																					
15	ELEVATOR		9.0				#3		#8	1-1/4"	16	SPACE		0.0																					
17			9.0	9.0	100	3					18	SPACE		0.0																					
19			9.0								20	SPACE	0.0																						
21	EXISTING		3.0				#6		#10	1"	22	EXISTING		4.0				#4	#4	#8	1-1/4"														
23			3.0	3.0	60	3					24			4.0	4.0	70	3																		
25			3.0								26																								
27	RCP1		0.4		20	1	#12	#12	#12	3/4"	28	EXISTING		0.8			20	1	#12	#12	#12	3/4"													
29	SPLIT UNIT			1.0	20	2	#12	#12	3/4"	30	SPLIT UNIT			0.0																					
31	PUMP		1.0								32	ALARM		0.0																					
33			0.5		20	1	#12	#12	#12	3/4"	34			0.0	0.0	20	1																		
35		RCP1-MANHOLE			0.8	20	1	#4	#4	#6	1 1/4"		36	SPACE		0.0																			
37	SPACE	0.0									38	SPACE	0.0																						
SUBTOTAL					16	16	17											SUBTOTAL					10	11	10										
CONNECTED LOAD:					KVA				NOTES:																										
PHASE A:					230				THE KVA SHOWN.																										
PHASE B:					26																														
PHASE C:					28.6				217 AMP																										
					79.5				223 AMP																										
									243 AMP																										
TOTAL									LOAD CALCULATIONS																										
									LIGHTING 100%																		0.0								
									RECEPTACLE LOAD 9 100%																		2.0								
									RADIANT 8 50%																		0								
									OTHER CONT. LOADS 100%																		77.5								
									TOTAL																		79.5								







BLDG 18H

SCHEDULE OF PANEL I																																									
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4										BUS: 400A MAIN: MLO AIC: EX										POLES: 60 SECTION: 1 OF 1 FDR. ENTRY: BOTTOM										ENCLOSURE: NEMA 1 LOCATION: BLDG 18H SOURCE: MDP											
C K T	EQUIPMENT SERVED	LOAD (KVA)			BKR (AMP)	WIRING (No.-AWG SZ)				C K T	EQUIPMENT SERVED	LOAD (KVA)			BKR (AMP)	WIRING (No.-AWG SZ)				C K T	EQUIPMENT SERVED	LOAD (KVA)			BKR (AMP)	WIRING (No.-AWG SZ)															
		PH. A	PH. B	PH. C		P	PH.	NEUT.	GRD.			C.	PH. A	PH. B		PH. C	P	PH.	NEUT.			GRD.	C.	PH. A		PH. B	PH. C	P	PH.	NEUT.	GRD.	C.									
1	EXISTING	0.4				20	1	#12	#12	#12	3/4"	2	EXISTING	1.0			20	1	#12	#12	#12	3/4"	4	EXISTING																	
3	EXISTING		0.6			20	1	#12	#12	#12	3/4"	4	EXISTING		0.8		20	1	#12	#12	#12	3/4"	8	EXISTING																	
5	EXISTING			0.8		20	1	#12	#12	#12	3/4"	8	EXISTING			0.8	20	1	#12	#12	#12	3/4"	8	EXISTING																	
7	EXISTING	0.2				20	1	#12	#12	#12	3/4"	8	EXISTING	0.5			20	1	#12	#12	#12	3/4"	8	EXISTING																	
9	EXISTING		1.0			20	1	#12	#12	#12	3/4"	10	EXISTING		0.6		20	1	#12	#12	#12	3/4"	10	EXISTING																	
11	EXISTING			0.8		20	1	#12	#12	#12	3/4"	12	EXISTING			0.6	20	1	#12	#12	#12	3/4"	12	EXISTING																	
13	EXISTING				0.8	20	1	#12	#12	#12	3/4"	14	EXISTING		0.8		20	1	#12	#12	#12	3/4"	14	EXISTING																	
15	EXISTING UPS		0.5			30	1	#10	#10	#10	3/4"	16	EXISTING		0.5		20	1	#12	#12	#12	3/4"	16	EXISTING																	
17	SPACE			0.0								18	EXISTING		0.5		20	1	#12	#12	#12	3/4"	18	EXISTING																	
19	EXISTING		1.7			20	2	#12		#12	3/4"	20	EXISTING	1.0			20	1	#12	#12	#12	3/4"	20	EXISTING																	
21	EXISTING			1.7								22	SPACE		0.0								24	SPACE																	
23	EXISTING			0.8		20	1	#12	#12	#12	3/4"	24	SPACE			0.0																									
25	EXISTING		3.3			20	1	#12	#12	#12	3/4"	26	SPACE		2.0																										
27	EXISTING			0.5		20	2	#12		#12	3/4"	28	EXISTING		2.0			30	3																						
29	EXISTING				0.5							30	SPACE			2.0																									
31	EXISTING			0.8		30	3	#10		#10	3/4"	32	EXISTING		1.5			30	3																						
33	EXISTING			0.8		30	3					34	EXISTING		1.5			30	3																						
35	EXISTING			0.8								36	EXISTING		1.5			30	3																						
37	SPACE		0.0									38	CONDENSATE PUMP		1.4			20	3																						
39	SPACE			0.6		0.5	20	1	#12	#12	#12	3/4"	40	EXISTING		1.4																									
41	EXISTING				0.5		20	1	#12	#12	#12	3/4"	42	EXISTING			0.0																								
43	EXISTING			0.5		30	3					44	SPACE		0.0			30	3																						
45	EXISTING			0.5								46	SPACE		0.0			30	3																						
47	EXISTING			0.0		0.5						48	SPACE		0.0			30	3																						
49	EXISTING			0.0								50	SPACE		0.0			30	3																						
51	SPACE			0.0			30	3				52	SPACE		0.0			30	3																						
53	SPACE			0.0		0.0						54	SPACE		0.0			30	3																						
55	SPACE			0.0								56	SPACE		0.0			30	3																						
57	SPACE			0.0								58	SPACE		0.0			30	3																						
59	SPACE			0.0								60	SPACE		0.0			30	3																						
SUBTOTAL						7	5	4				SUBTOTAL						8	7	7				SUBTOTAL						8	7	7									
NOTES:																																									
CONNECTED LOAD:						KVA						129 AMP						THE KVA SHOWN, REPRESENTS THE TOTAL POSSIBLE LOAD FOR THIS PANEL.						LIGHTING						100%						0.0					
PHASE A:						15.4						7.3						RECEPTACLE LOAD						1ST 10 KVA @ 100%						7.3											
PHASE B:						11.9						7.3						Remainder @ 50%						0																	
PHASE C:						11.0						92 AMP						OTHER CONT LOADS						100%						33.1											
TOTAL						38.3						LOAD CALCULATIONS						TOTAL						40.4																	

BLDG 19H

SCHEDULE OF PANEL RPB1																																								
VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4									BUS: 200A MAIN: MLO AIC: 22k									POLES: 42 SECTION: 1 OF 1 FDR. ENTRY: TOP									ENCLOSURE: NEMA 1 LOCATION: BLDG. 19H SOURCE: PANEL RDP													
C K T	EQUIPMENT SERVED	LOAD (KVA)			BKR. TRIP (AMP)	P	PH.	NEUT.	WIRING (No.-AWG SZ)			C K T	EQUIPMENT SERVED	LOAD (KVA)			BKR. TRIP (AMP)	P	PH.	NEUT.	WIRING (No.-AWG SZ)			C K T	EQUIPMENT SERVED	LOAD (KVA)			BKR. TRIP (AMP)	P	PH.	NEUT.	WIRING (No.-AWG SZ)							
		PH. A	PH. B	PH. C					GRD.	C.	PH. A			PH. B	PH. C	GRD.					C.	PH. A	PH. B			PH. C	GRD.	C.												
1	CONDENSATE PUMP	1.4							#12	#12	3/4"	2	EX ELEV PIT LTG	4.1			20	1	#12	#12	#12	3/4"	4	EX RECEPTACLE	0.8						20	1	#12	#12	#12	3/4"				
3	19H-CDP-1		1.4			20	3					4	EX RECEPTACLE		0.8		20	1	#12	#12	#12	3/4"	6	EX ALARM SUMP		0.8					20	1	#12	#12	#12	3/4"				
5	EX RECEPTABLES		0.8			20	1	#12	#12	#12	3/4"	8	EX RECEPTABLES		0.8		20	1	#12	#12	#12	3/4"	10	EX RECEPTABLES		0.8					20	1	#12	#12	#12	3/4"				
9	EX RECEPTABLES			0.8		20	1	#12	#12	#12	3/4"	10	EX RECEPTABLES			0.8		20	1	#12	#12	#12	3/4"	12	EX FCU			0.8					20	1	#12	#12	#12	3/4"		
11	EX RECEPTABLES			0.8		20	1	#12	#12	#12	3/4"	12	EX FCU				0.8		20	1	#12	#12	#12	3/4"	14	EX EF-8			0.8					20	1	#12	#12	#12	3/4"	
13	EX RECEPTABLES			0.8		20	1	#12	#12	#12	3/4"	14	EX EF-8					0.8		20	1	#12	#12	#12	3/4"	16	EX RECEPTABLES			0.8					20	1	#12	#12	#12	3/4"
15	EX RECEPTABLES			0.8		20	1	#12	#12	#12	3/4"	16	EX RECEPTABLES					0.8		20	1	#12	#12	#12	3/4"	18	EX RECEPTABLES			0.8					20	1	#12	#12	#12	3/4"
17	SPARE			0.0		20	1					18	SPARE				0.0		20	1					20	SPARE			0.0					20	1					
19	SPARE			0.0		20	1					20	SPARE			0.0			20	1					22	SPARE			0.0					20	1					
21	EX RECEPTABLES			0.8		20	1	#12	#12	#12	3/4"	22	SPARE			0.0			20	1					24	SPARE			0.0					20	1					
23	EX RECEPTABLES			0.8		20	1	#12	#12	#12	3/4"	24	SPARE					0.0		20	1					26	SPARE			0.0					20	1				
25	EX RECEPTABLES			0.8		20	1	#12	#12	#12	3/4"	26	SPARE			0.0			20	1					28	SPARE			0.0					20	1					
27	EX RECEPTABLES			0.8		20	1	#12	#12	#12	3/4"	28	SPARE					0.0		20	1					30	SPARE			0.0					20	1				
29	EX RECEPTABLES			0.8		20	1	#12	#12	#12	3/4"	30	SPARE					0.0		20	1					32	SPARE			0.0					20	1				
31	EX RECEPTABLES			0.8		20	1	#12	#12	#12	3/4"	32	SPARE					0.0		20	1					34	SPARE			0.0					20	1				
33	EX RECEPTABLES			0.8		20	1	#12	#12	#12	3/4"	34	SPARE					0.0		20	1					36	SPARE			0.0					20	1				
35	EX RECEPTABLES			0.8		20	1	#12	#12	#12	3/4"	36	SPARE					0.0		20	1					38	SPARE			0.0					20	1				
37	SPARE			0.0								38	SPARE				0.0								40	SPARE			0.0					20	1					
39	SPARE			0.0		100	3					40	SPARE						80	3					42	SPARE			0.0					20	1					
41				0.0								42				0.0													0.0											
	SUBTOTAL	5	5	5		P							SUBTOTAL	6	2	2																								
<u>NOTES:</u>																																								
CONNECTED LOAD:														KVA																										
PHASE A:														10.4																										
PHASE B:														7.8																										
PHASE C:														6.2																										
TOTAL														24.4																										
														①																										
THE KVA SHOWN, REPRESENTS THE TOTAL POSSIBLE LOAD FOR THIS PANEL.																																								
<u>LOAD CALCULATIONS</u>																																								
LIGHTING 100% 3.3																																								
RECEPTACLE LOAD 1ST 10 KVA @ 100% 10.0																																								
Remainder @ 50% 1.8																																								
OTHER CONT. LOAD 7.5																																								
TOTAL 22.6																																								