

PLUMBING SYMBOLS LEGEND

PLUMBING GENERAL NOTES

Table with 10 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists various plumbing symbols like valves, pipes, and gauges.

- 1. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED, TO INSTALL COMPLETE FOR AN OPERABLE PLUMBING SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE. ALL MATERIAL SHALL BE NEW AND OF GOOD QUALITY. ALL WORK SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER.

PLUMBING ABBREVIATIONS

Table with 4 columns: ABB, DESCRIPTION, ABB, DESCRIPTION, ABB, DESCRIPTION, ABB, DESCRIPTION. Lists abbreviations for materials, units, and components.

PLUMBING PIPE LEGEND

Table with 3 columns: SYMBOL, ABBREV, DESCRIPTION. Lists pipe types and materials like ATF, AW, AV, etc.

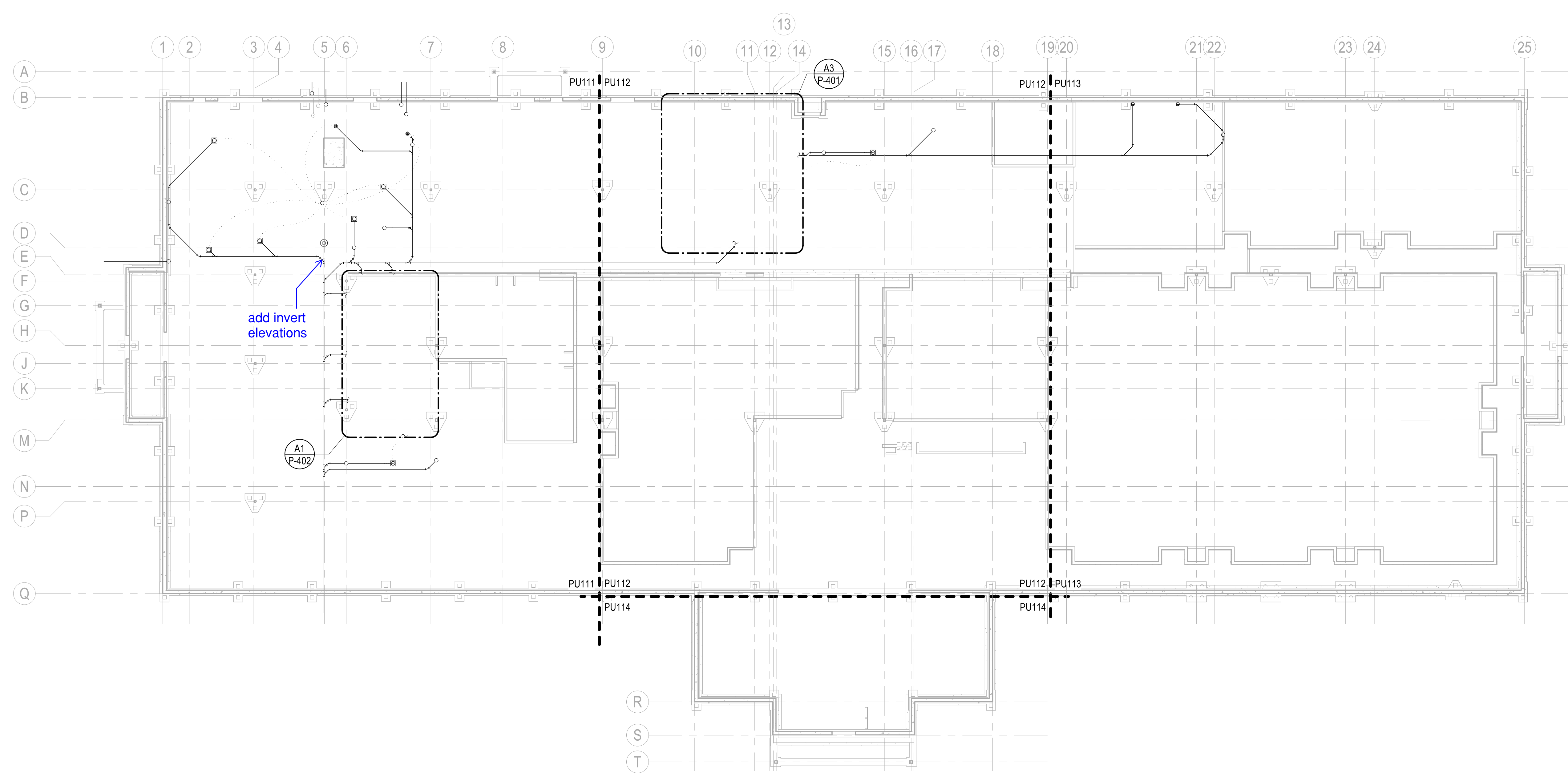
back check locations and provide access. also change standard. i think we need to eliminate one of these numbers. we did ASSE 1044 is from a lavatory, lets not use this type.

Project information block including logos for NAVFAC, Jordan Company, and Michael Baker International. Includes project name, location, and drawing title.

PLOTTED: 5/28/2021 2:17:25 PM

FILE NAME: BIM_360/HF PACKAGE 3P1338_MEF_SIM CTR-159082-M.dwg

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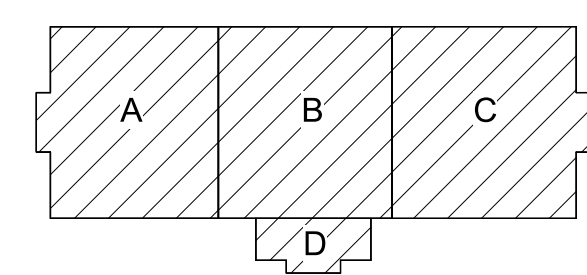


PLUMBING - OVERALL - UNDERGROUND PLAN
 SCALE: 1/16" = 1'-0"
 FFE: 0'-0"



GENERAL NOTES

- 1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- 2 REFER TO STRUCTURAL DRAWINGS FOR THE EXACT SIZE, LOCATION, AND ELEVATION OF FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 3 REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PIPE CROSSINGS UNDER OR THROUGH THE STRUCTURAL FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 4 ALL UNDERFLOOR SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"1'-0", UNLESS NOTED OTHERWISE.
- 5 UNDERFLOOR VENTS SHALL CONNECT ABOVE CENTERLINE OF WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- 6 UNDERFLOOR SANITARY SEWER PIPING SHALL BE A MINIMUM OF 4" UNLESS NOTED OTHERWISE.
- 7 REFER TO P-700 SERIES FOR RISER DIAGRAMS.

KEYPLAN



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

APPROVED	DATE	APPR
SYMBOL	DESCRIPTION	
 PRELIMINARY NOT FOR CONSTRUCTION		
 Michael Baker INTERNATIONAL 100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED		
FOR COMMANDER NAVFAC		
ACTIVITY		
MARINE CORPS BASE CAMP LEJEUNE		
SATISFACTORY TO DATE		
DES	DRW	CHK
PM		
BRANCH MANAGER		
CHIEF ENGINEER		
FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING COMMAND JACKSONVILLE, NC JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT PLUMBING - OVERALL - UNDERGROUND PLAN		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC ROIC FLORENCE CAMP LEJEUNE MCB CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT PLUMBING - OVERALL - UNDERGROUND PLAN PRE-FINAL SUBMISSION		
SCALE: AS NOTED		
EPROJCT NO.: 1500892		
CONSTR. CONTR. NO. N40085-20-C-0059		
NAVFAC DRAWING NO.		
SHEET OF		
PU110		

PLOTTED: 5/28/2021 2:18:51 PM

FILE NAME: BIM_360/HF PACKAGE 3P11338.MEF_SIM_CTR-1500892-M.rvt

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UNCLASSIFIED
DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

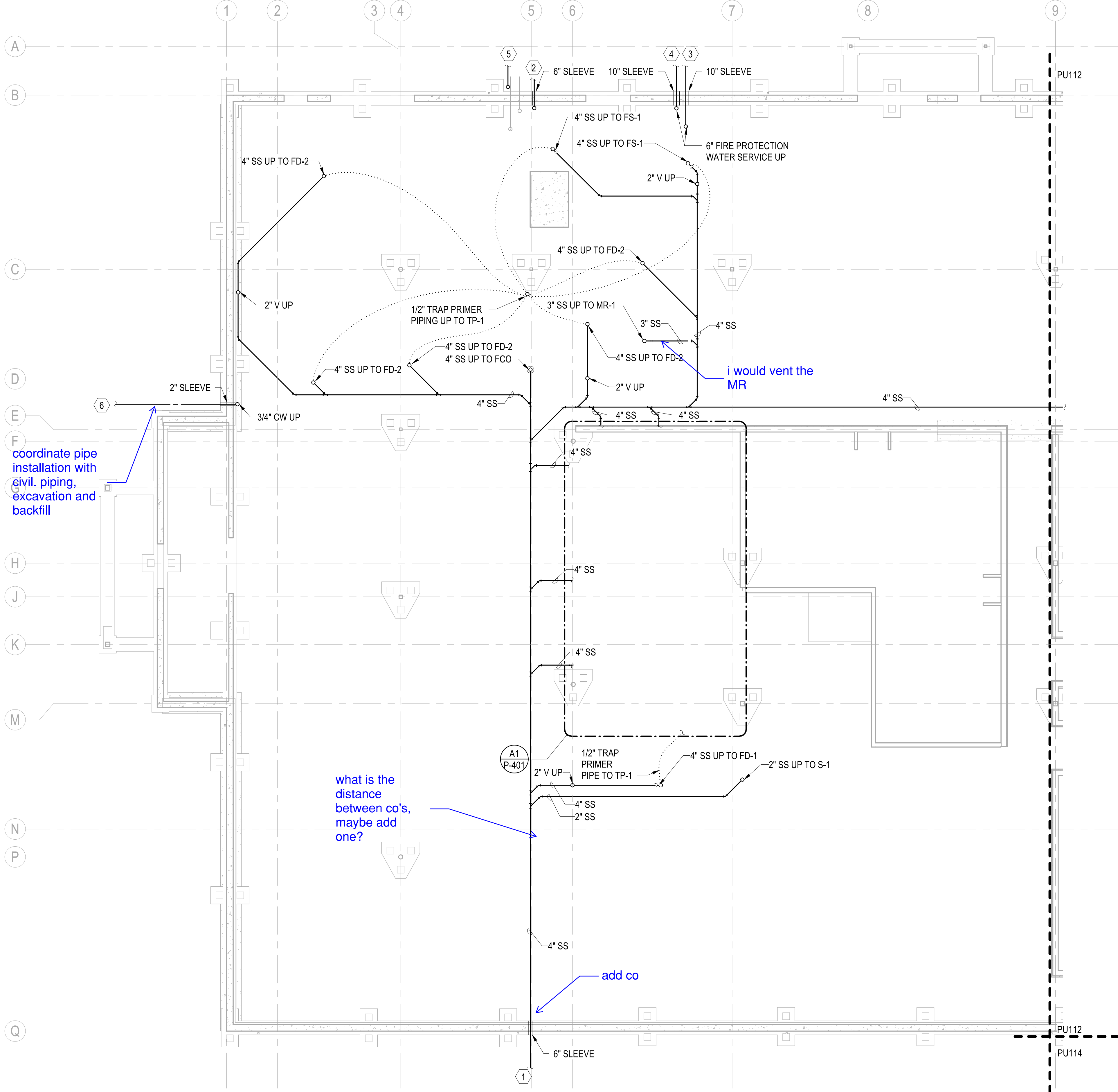
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PLUMBING - UNDERGROUND PLAN - AREA A
 SCALE: 1/8" = 1'-0"

- GENERAL NOTES**
- SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
 - REFER TO STRUCTURAL DRAWINGS FOR THE EXACT SIZE, LOCATION, AND ELEVATION OF FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
 - REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PIPE CROSSINGS UNDER OR THROUGH THE STRUCTURAL FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
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 - UNDERFLOOR SANITARY SEWER PIPING SHALL BE A MINIMUM OF 4" UNLESS NOTED OTHERWISE.
 - REFER TO P-700 SERIES FOR RISER DIAGRAMS.

- KEYNOTES**
- 4" SS, INVERT ELEVATION -6'-0 1/2". TOP OF FOOTING ELEVATION -1'-4", BOTTOM OF FOOTING ELEVATION -3'-4". REFER TO CIVIL DRAWINGS FOR CONTINUATION.
 - 3" DOMESTIC WATER SERVICE. TOP OF FOOTING ELEVATION -1'-4", BOTTOM OF FOOTING ELEVATION -3'-4". REFER TO CIVIL DRAWINGS FOR CONTINUATION.
 - 6" FIRE PROTECTION WATER SERVICE. TOP OF FOOTING ELEVATION -1'-4", BOTTOM OF FOOTING ELEVATION -3'-4". REFER TO CIVIL DRAWINGS FOR CONTINUATION.
 - 6" FIRE PROTECTION WATER SERVICE. TOP OF FOOTING ELEVATION -1'-4", BOTTOM OF FOOTING ELEVATION -3'-4". REFER TO CIVIL DRAWINGS FOR CONTINUATION.
 - 1 1/4" NATURAL GAS SERVICE. REFER TO CIVIL DRAWINGS FOR CONTINUATION.
 - 3/4" CW TO YH-1 AT MECHANICAL YARD. TOP OF FOOTING ELEVATION -1'-4", BOTTOM OF FOOTING ELEVATION -3'-4". REFER TO CIVIL DRAWINGS FOR CONTINUATION.

PRELIMINARY
 NOT FOR CONSTRUCTION

Michael Baker INTERNATIONAL
 100 AIRSIDE DRIVE
 MOON TOWNSHIP, PA 15108
 APPROVED

FOR COMMANDER NAVFAC		
ACTIVITY		
MARINE CORPS BASE CAMP LEJEUNE		
SATISFACTORY TO DATE		
DES	DRW	CHK
PM		
BRANCH MANAGER		
CHIEF ENGINEER		
FIRE PROTECTION		

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
 ROICC FLORENCE CAMP LEJEUNE
 JACKSONVILLE, NC
 JACKSONVILLE, NC
 P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 PLUMBING - UNDERGROUND PLAN - AREA A

KEYPLAN

SCALE: AS NOTED
 EPROJECT NO.: 1500892
 CONSTR. CONTR. NO.: N40085-20-C-0059
 NAVFAC DRAWING NO.:
 SHEET OF
PU111

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

PLOTTED: 5/28/2021 2:18:55 PM

FILE NAME: BIM360/HF PACKAGE 3/P1338 MEF SIM CTR-1500892-M.rvt

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DP2 SUBMISSION - P1338 BUILDING -PRE-FINAL SUBMISSION

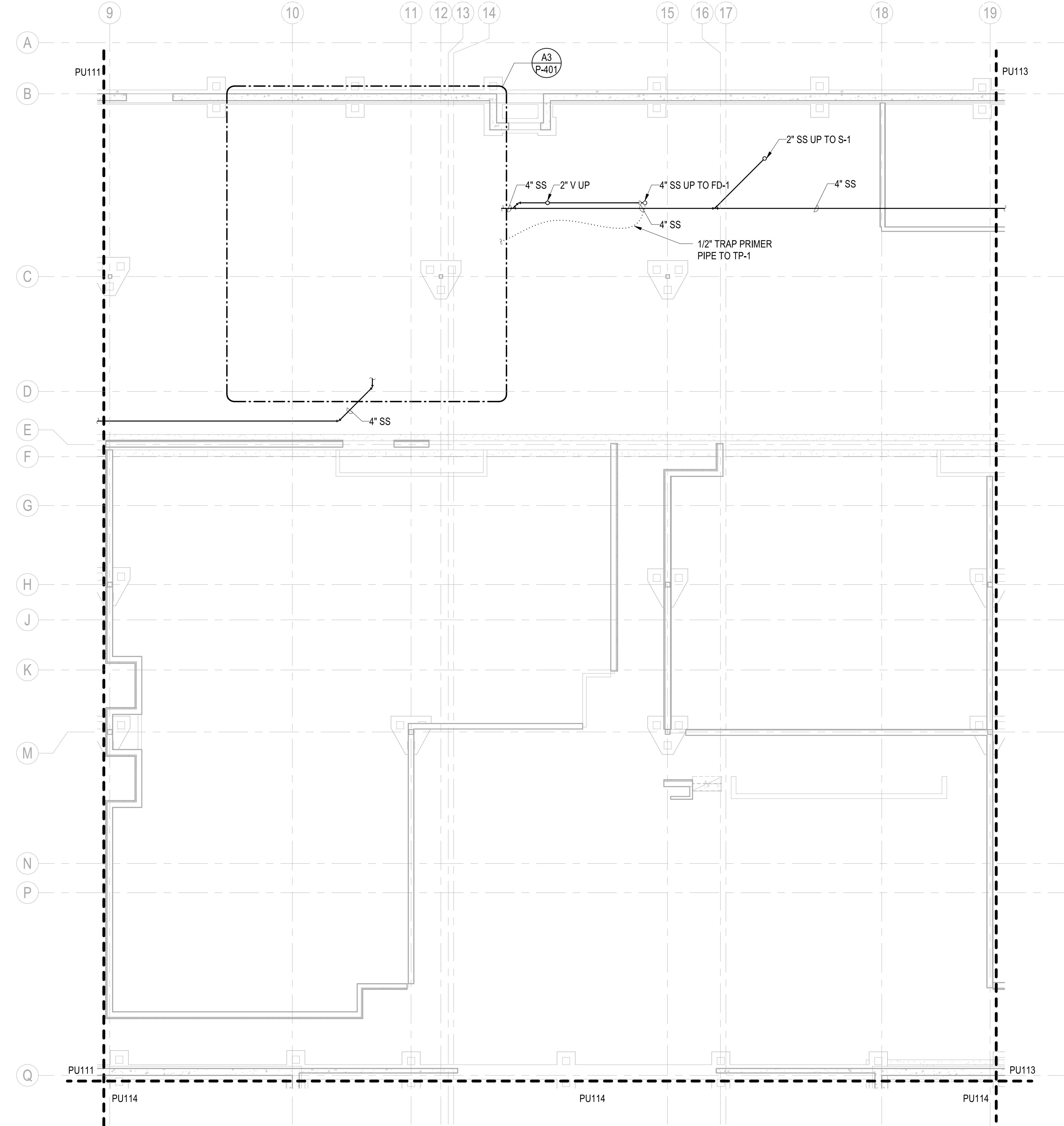
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PLUMBING - UNDERGROUND PLAN - AREA B
 SCALE: 1/8" = 1'-0"

FFE: 0'-0"

- GENERAL NOTES**
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 - 7 REFER TO P-700 SERIES FOR RISER DIAGRAMS.

SYMBOL	DESCRIPTION	DATE	APPROVED



PRELIMINARY
 NOT FOR CONSTRUCTION



Michael Baker INTERNATIONAL
 100 AIRSIDE DRIVE
 MOON TOWNSHIP, PA 15108
 APPROVED

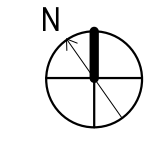
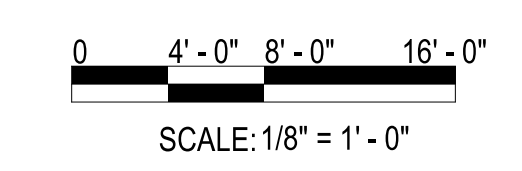
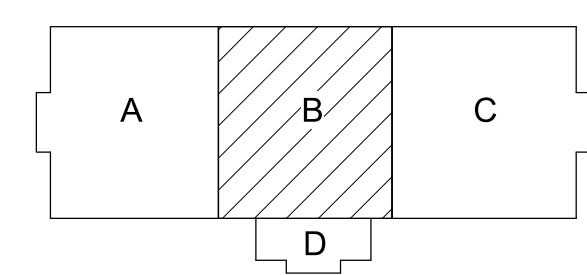
FOR COMMANDER NAVFAC		
ACTIVITY		
MARINE CORPS BASE CAMP LEJEUNE		
SATISFACTORY TO DATE		
DES	DRW	CHK
PM		
BRANCH MANAGER		
CHIEF ENGINEER		
FIRE PROTECTION		

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
 ROICC FLORENCE CAMP LEJEUNE
 JACKSONVILLE, NC
 JACKSONVILLE, NC
 P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 PLUMBING - UNDERGROUND PLAN - AREA B

SCALE:	AS NOTED
EPROJCT NO.:	1590892
CONSTR. CONTR. NO.:	N40085-20-C-0059
NAVFAC DRAWING NO.:	
SHEET	OF

PU112

KEYPLAN



PLOTTED: 5/28/2021 2:18:58 PM

FILE NAME: BIM360/HF PACKAGE 3P1338.MEF SIM CTR-1590892-M.rvt

DP2 SUBMISSION - P1338 BUILDING -PRE-FINAL SUBMISSION

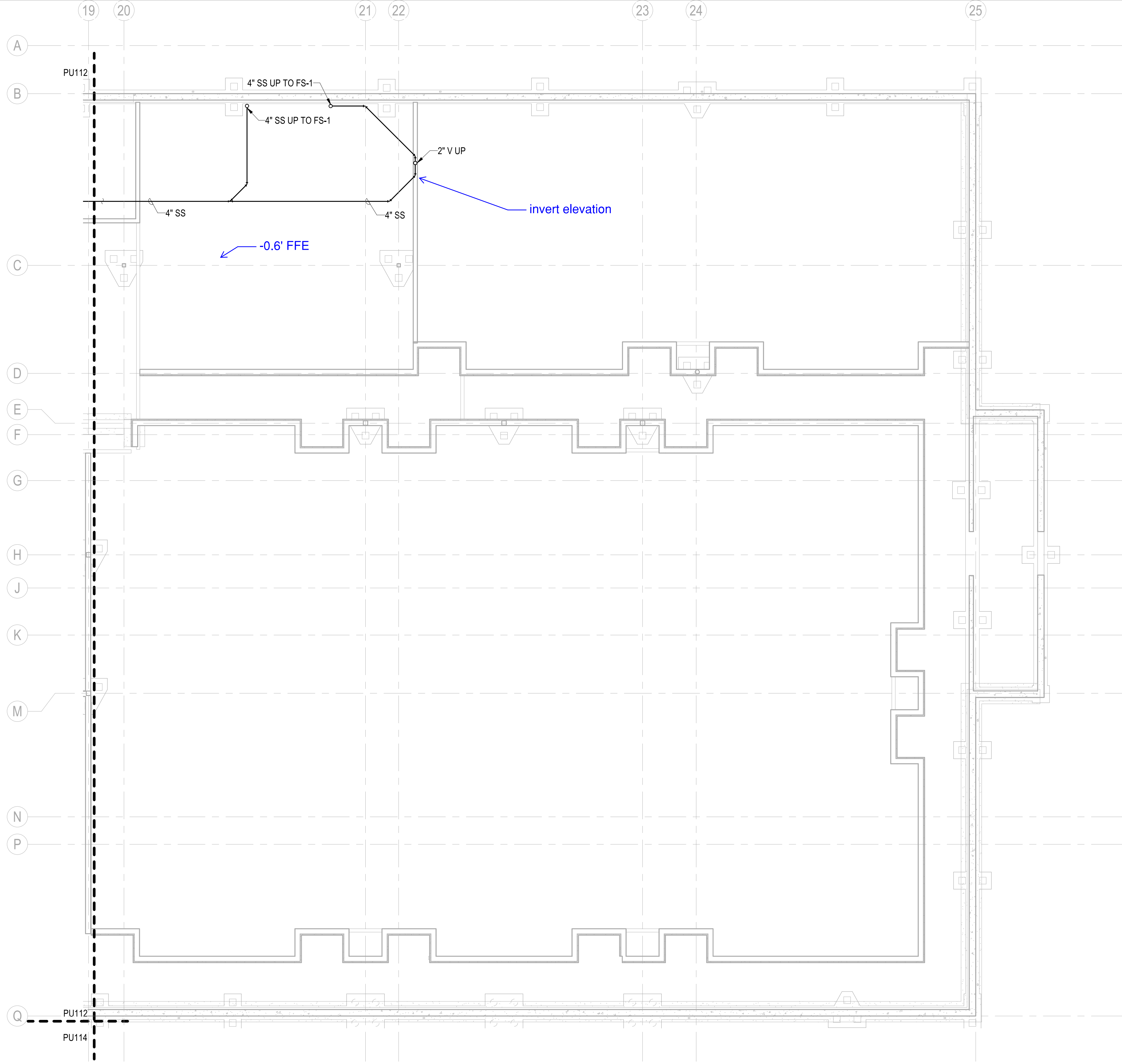
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PLUMBING - UNDERGROUND PLAN - AREA C
 SCALE: 1/8" = 1'-0"

FFE: 0'-0"

- GENERAL NOTES**
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 - 6 UNDERFLOOR SANITARY SEWER PIPING SHALL BE A MINIMUM OF 4" UNLESS NOTED OTHERWISE.
 - 7 REFER TO P-700 SERIES FOR RISER DIAGRAMS.

SYMBOL	DESCRIPTION	DATE	APPROVED



PRELIMINARY
 NOT FOR CONSTRUCTION



Michael Baker INTERNATIONAL
 100 AIRSIDE DRIVE
 MOON TOWNSHIP, PA 15108
 APPROVED

FOR COMMANDER NAVFAC
 ACTIVITY
 MARINE CORPS BASE
 CAMP LEJEUNE

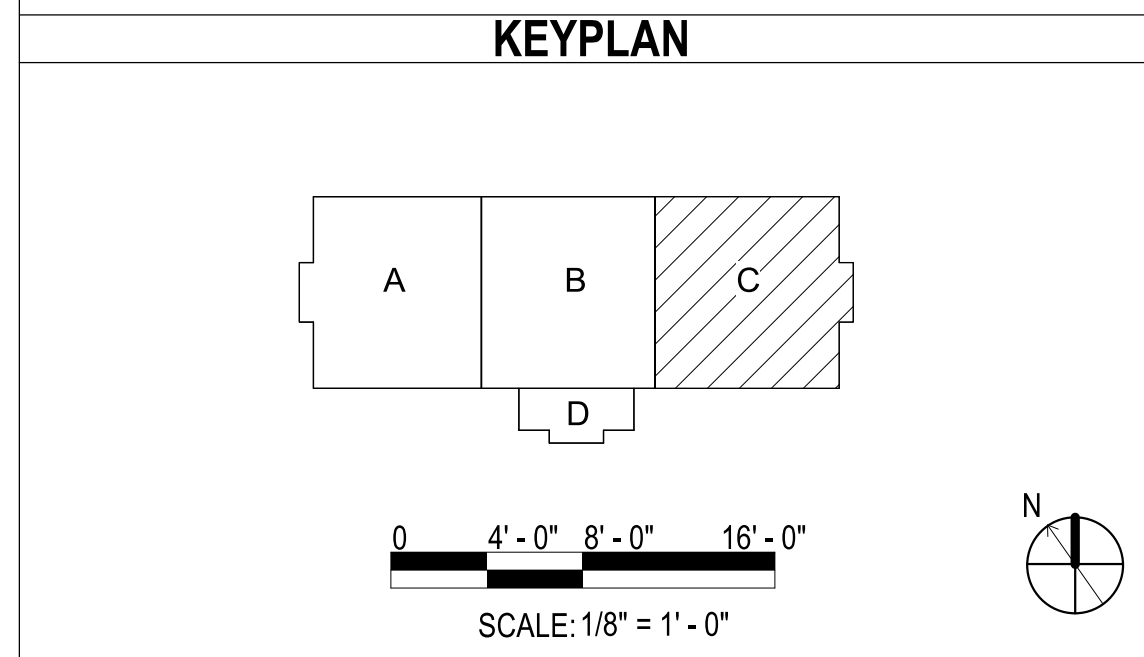
SATISFACTORY TO DATE		
DES	DRW	CHK
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BRANCH MANAGER		
CHIEF ENGINEER		
FIRE PROTECTION		

NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
 JACKSONVILLE, NC
 MCB CAMP LEJEUNE
 JACKSONVILLE, NC
 P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 PLUMBING - UNDERGROUND PLAN - AREA C

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 ROIC FLORENCE CAMP LEJEUNE
 MCB CAMP LEJEUNE
 JACKSONVILLE, NC
 P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 PLUMBING - UNDERGROUND PLAN - AREA C

SCALE: AS NOTED
 EPROJECT NO.: 1590892
 CONSTR. CONTR. NO.:
 N40085-20-C-0059
 NAVFAC DRAWING NO.
 SHEET OF

PU113



PLOTTED: 5/28/2021 2:19:01 PM

FILE NAME: BIM_360/HF PACKAGE 3P11338_MEF_SIM_CTR-1590892.dwg

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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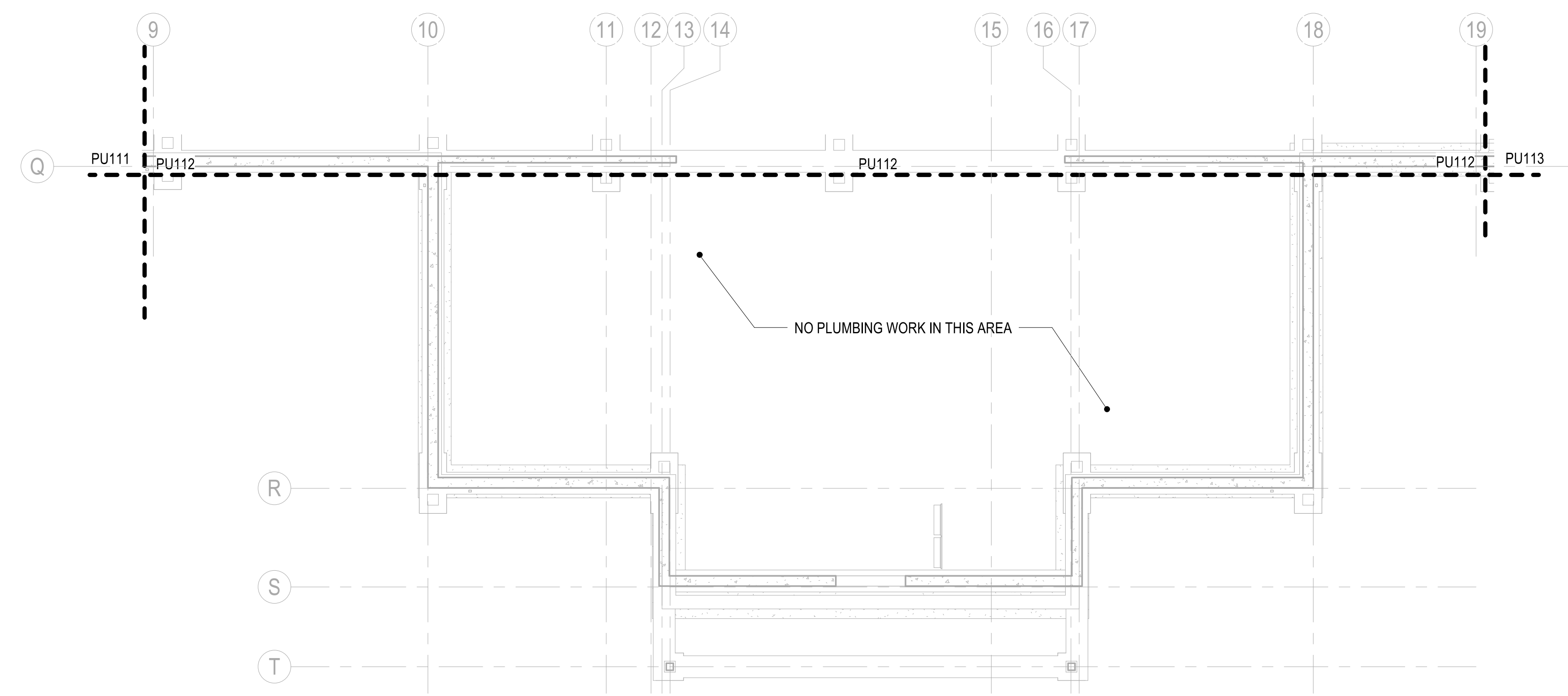
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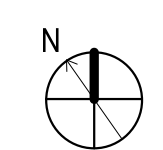
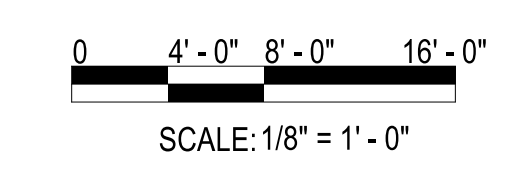
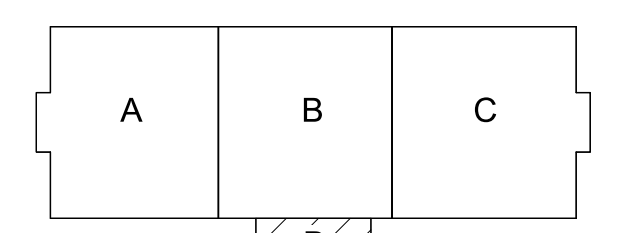
GENERAL NOTES

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PLUMBING - UNDERGROUND PLAN - AREA D
 SCALE: 1/8" = 1'-0"
 FFE: 0'-0"

KEYPLAN



SYMBOL	DESCRIPTION	DATE	APPROVED



PRELIMINARY
 NOT FOR CONSTRUCTION



Michael Baker INTERNATIONAL
 100 AIRSIDE DRIVE
 MOON TOWNSHIP, PA 15108
 APPROVED

FOR COMMANDER NAVFAC
 ACTIVITY
 MARINE CORPS BASE
 CAMP LEJEUNE

SATISFACTORY TO DATE

DES: DRW: CHK:

PM:

BRANCH MANAGER:

CHIEF ENGINEER:

FIRE PROTECTION:

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
 ROICC FLORENCE CAMP LEJEUNE
 JACKSONVILLE, NC
 JACKSONVILLE, NC
 P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 PLUMBING - UNDERGROUND PLAN - AREA D

SCALE: AS NOTED

EPROJECT NO.: 1500892

CONSTR. CONTR. NO.
 N40085-20-C-0059

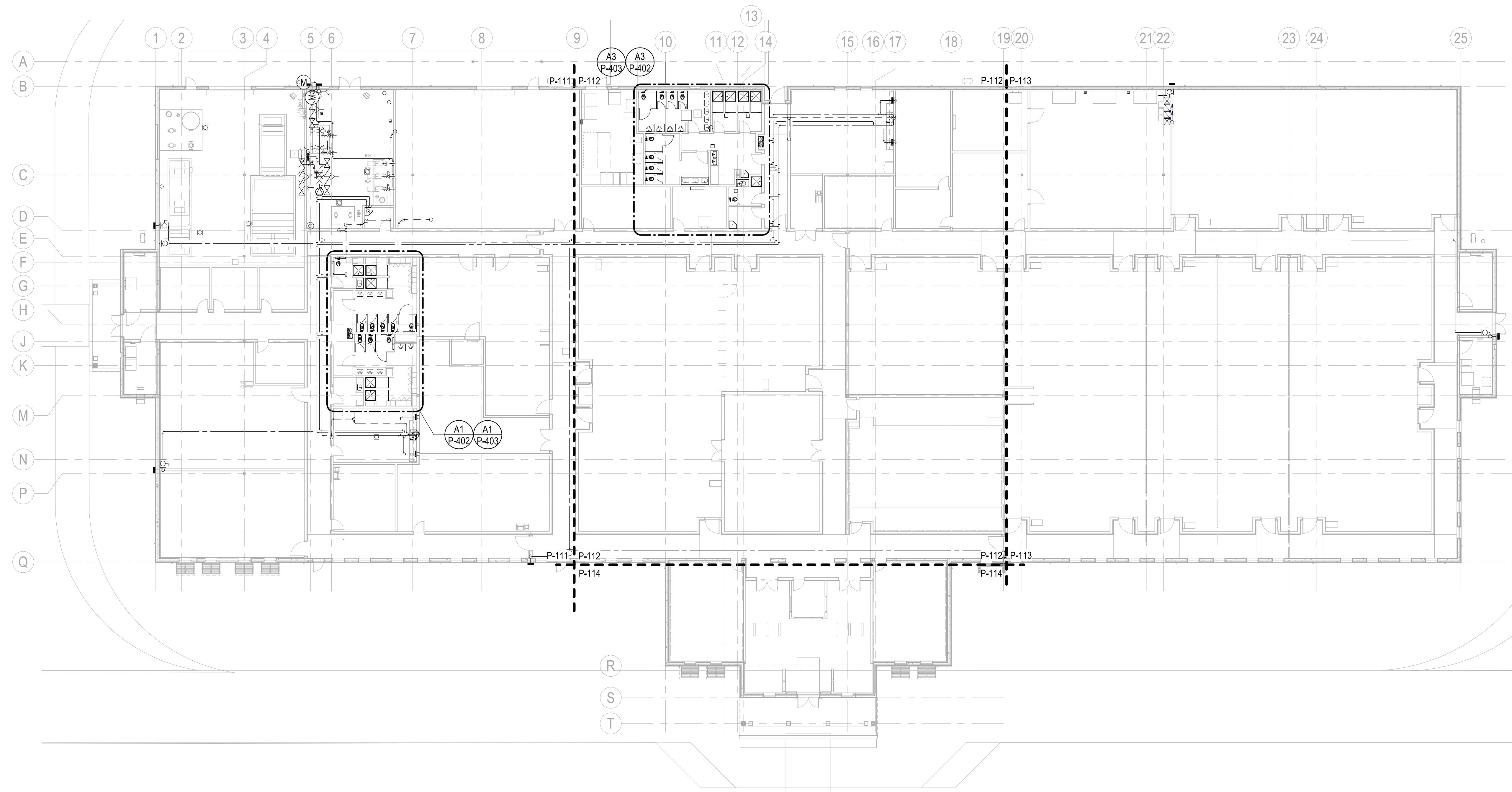
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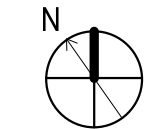
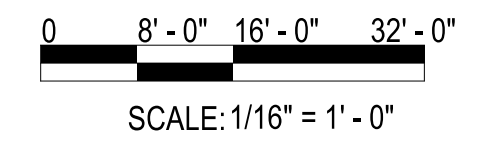
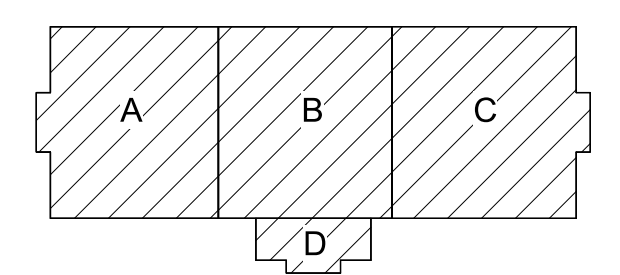




PLUMBING - OVERALL - FIRST FLOOR PLAN
 SCALE: 1/16" = 1'-0"

GENERAL NOTES

- 1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- 2 ALL SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8"/1'-0", UNLESS NOTED OTHERWISE.
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- 4 REFER TO P-700 SERIES FOR RISER DIAGRAMS.

KEYPLAN



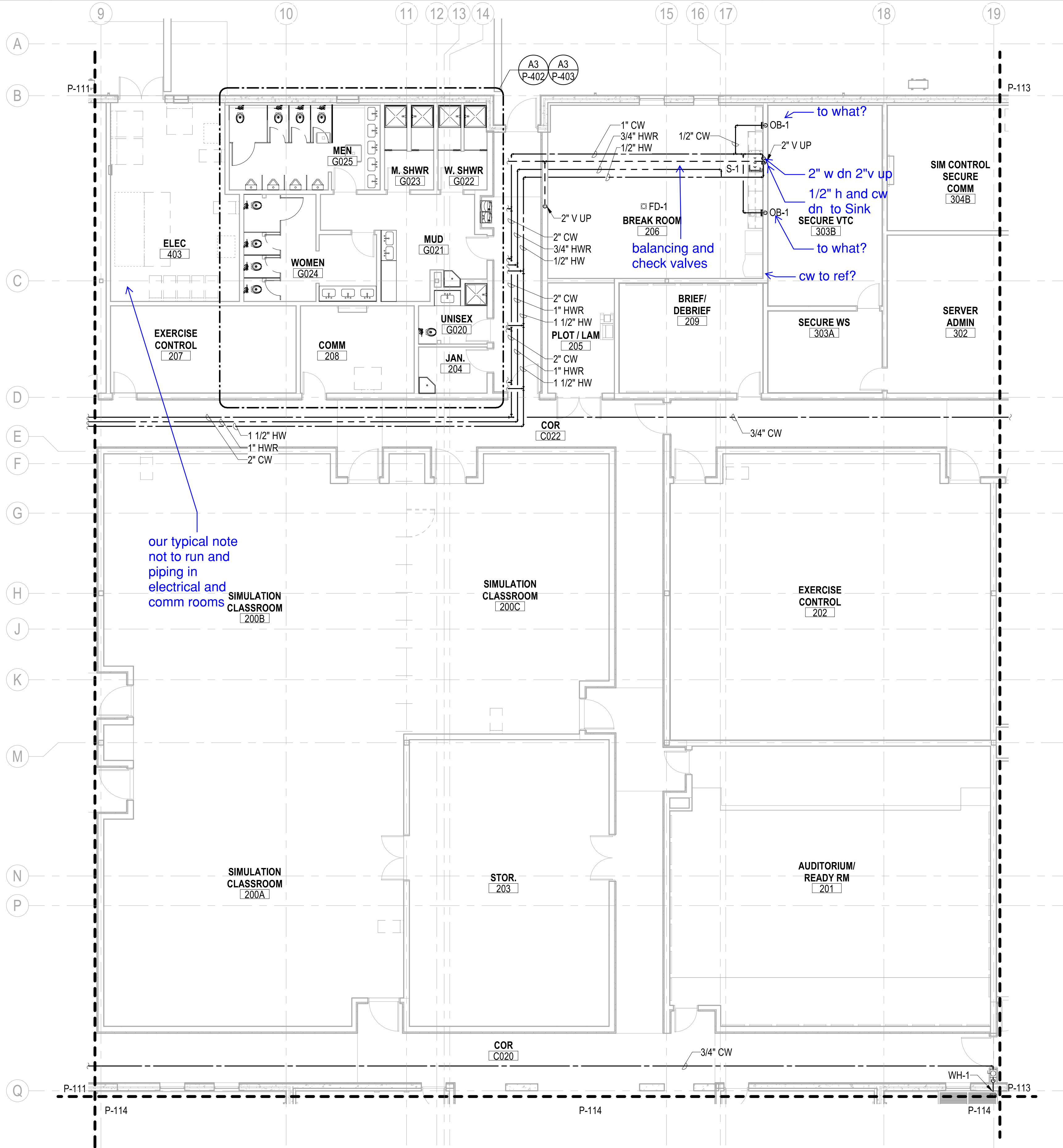
APPROVED	DATE	APPR
SYMBOL	DESCRIPTION	
		
PRELIMINARY NOT FOR CONSTRUCTION		
		
Michael Baker INTERNATIONAL 100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 A/E IN/PS APPROVED		
FOR COMMANDER NAVFAC		
ACTIVITY		
MARINE CORPS BASE CAMP LEJEUNE		
SATISFACTORY TO DATE		
DES	DRW	CHK
PM		
BRANCH MANAGER		
CHIEF ENGINEER		
FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC JACKSONVILLE, NC MCB CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT PLUMBING - OVERALL - FIRST FLOOR PLAN		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ROIC CAMP LEJEUNE JACKSONVILLE, NC SCALE: AS NOTED EPROJCT NO.: 1500892 CONSTR. CONTR. NO.: N40085-20-C-0059 NAVFAC DRAWING NO.: SHEET OF P-110		

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UNCLASSIFIED
DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

PLOTTED: 5/28/2021 2:17:24 PM

FILE NAME: BIM360/HF PACKAGE 3P11338.MEF SIM CTR-1500892-M.rvt

1 2 3 4 5 UNCLASSIFIED



- GENERAL NOTES**
- SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
 - ALL SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8" / 1'-0", UNLESS NOTED OTHERWISE.
 - VENTS SHALL CONNECT ABOVE CENTERLINE OF HORIZONTAL WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
 - REFER TO P-700 SERIES FOR RISER DIAGRAMS.

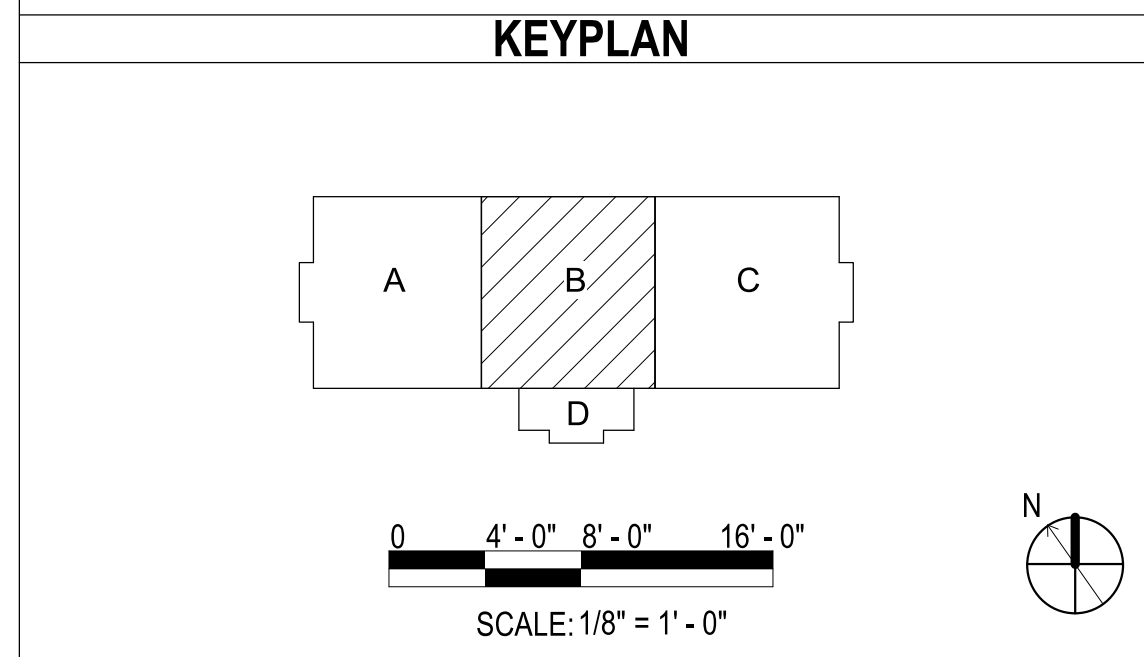
our typical note
not to run and
piping in
electrical and
comm rooms

balancing and
check valves

to what?
2" w dn 2" v up
1/2" h and cw
dn to Sink
SECURE VTC
303B
to what?
cw to ref?

PLUMBING - FIRST FLOOR PLAN - AREA B
SCALE: 1/8" = 1'-0"

FFE: 0'-0"



APPR	DATE	DESCRIPTION	SYM
<p>PRELIMINARY NOT FOR CONSTRUCTION</p>			
<p>Michael Baker INTERNATIONAL 100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED</p>			
FOR COMMANDER NAVFAC			
ACTIVITY			
MARINE CORPS BASE CAMP LEJEUNE			
SATISFACTORY TO DATE			
DES	DRW	CHK	
PM			
BRANCH MANAGER			
CHIEF ENGINEER			
FIRE PROTECTION			
<p>NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC ROICC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT PLUMBING - FIRST FLOOR PLAN - AREA B</p>			
<p>DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC ROICC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT PLUMBING - FIRST FLOOR PLAN - AREA B</p>			
SCALE: AS NOTED			
EPROJCT NO.: 1590892			
CONSTR. CONTR. NO. N40085-20-C-0059			
NAVFAC DRAWING NO.			
SHEET OF			
P-112			

PLOTTED: 5/28/2021 2:17:48 PM

FILE NAME: BIM360/HF PACKAGE 3P11338.MEF SIM CTR-1590892-M.rvt

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

UNCLASSIFIED

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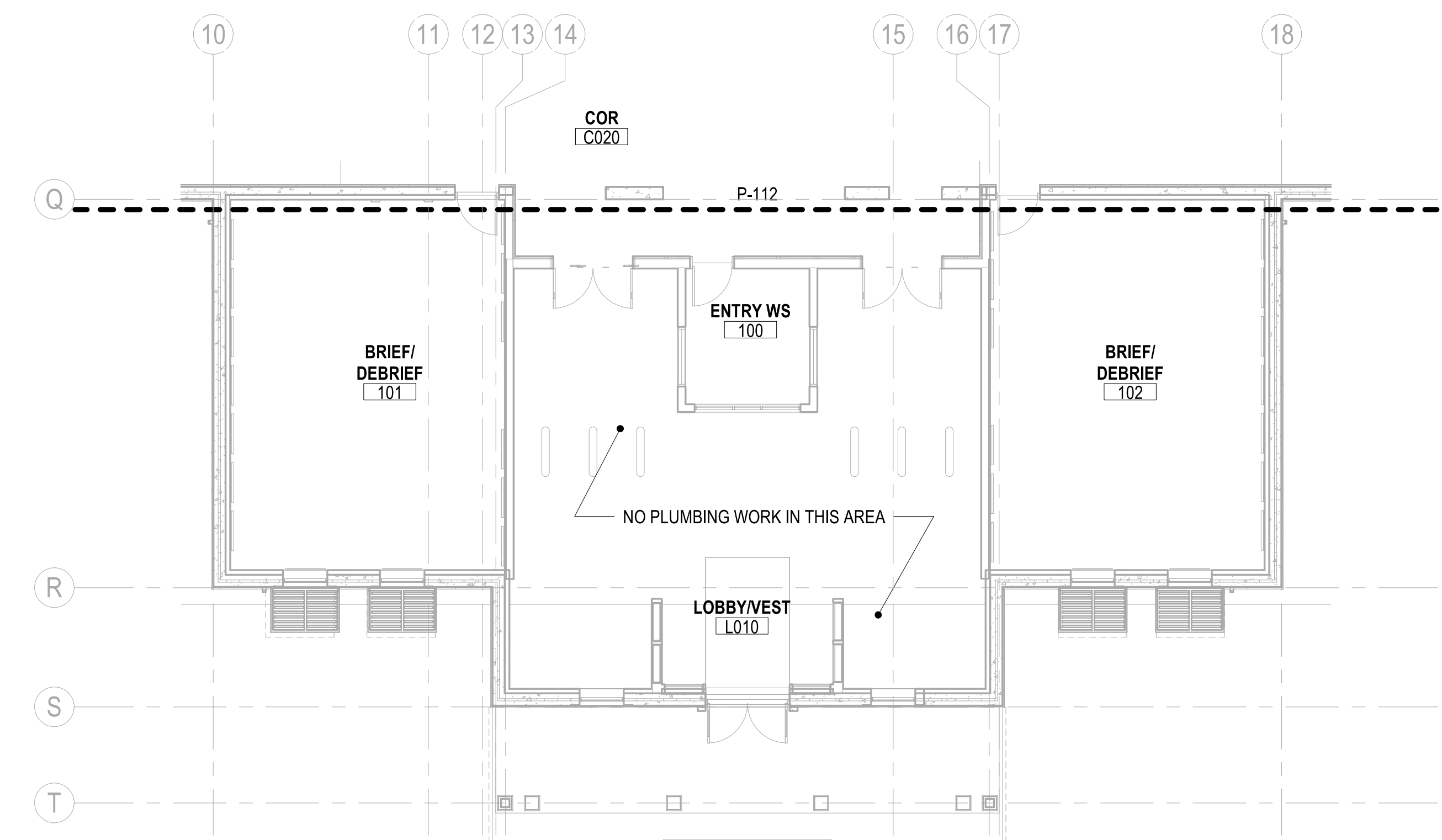
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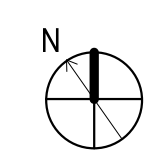
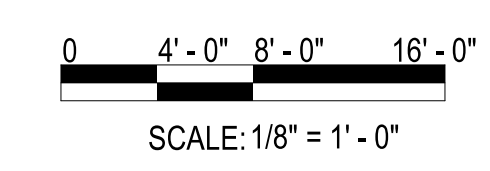
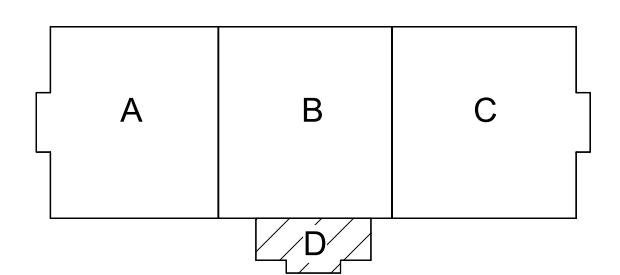
GENERAL NOTES

- 1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
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PLUMBING - FIRST FLOOR PLAN - AREA D
 SCALE: 1/8" = 1'-0" FFE: 0'-0"

KEYPLAN



SYMBOL	DESCRIPTION	DATE	APPROVED



PRELIMINARY
 NOT FOR CONSTRUCTION



Michael Baker INTERNATIONAL
 100 AIRSIDE DRIVE
 MOON TOWNSHIP, PA 15108

FOR COMMANDER NAVFAC
 ACTIVITY
 MARINE CORPS BASE
 CAMP LEJEUNE

SATISFACTORY TO DATE

DES DRW CHK

PM

BRANCH MANAGER

CHIEF ENGINEER

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
 JACKSONVILLE, NC
 MCB CAMP LEJEUNE
 JACKSONVILLE, NC
 P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 PLUMBING - FIRST FLOOR PLAN - AREA D

SCALE: AS NOTED
 EPROJECT NO.: 1590892
 CONSTR. CONTR. NO.: N40085-20-C-0059
 NAVFAC DRAWING NO.:
 SHEET OF
P-114

PLOTTED: 5/28/2021 2:17:56 PM

FILE NAME: BIM_360/HF PACKAGE 3P11338.MEF SIM CTR-1590892.Mxd

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

UNCLASSIFIED

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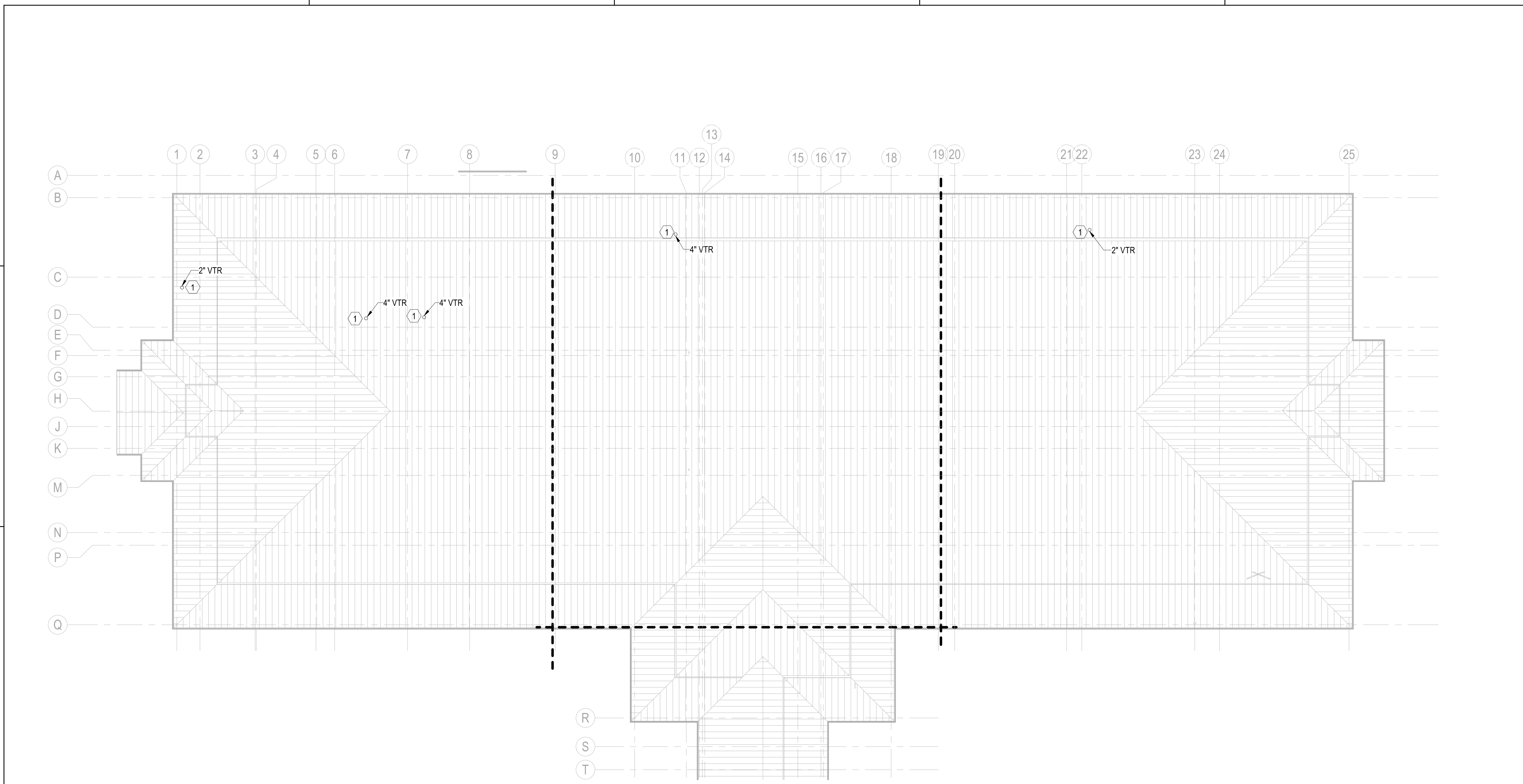
C

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PLUMBING - OVERALL - ROOF PLAN

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

GENERAL NOTES

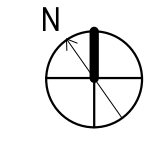
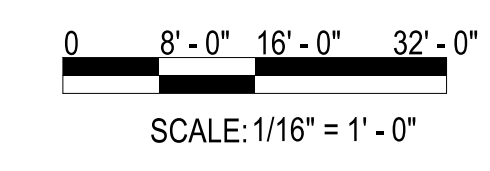
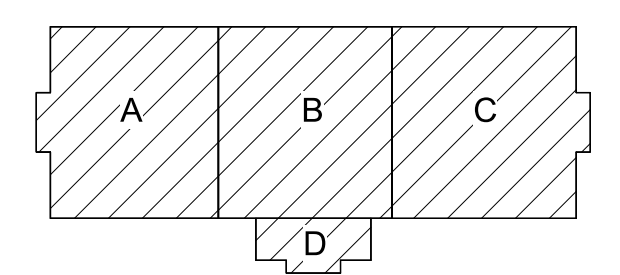
- 1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- 2 ALL SANITARY SEWERS SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8" / 1'-0", UNLESS NOTED OTHERWISE.
- 3 VENTS SHALL CONNECT ABOVE CENTERLINE OF HORIZONTAL WASTE / SANITARY PIPE & SHALL RISE CONTINUOUSLY THROUGH FLOOR A MINIMUM 6" ABOVE FLOOD LEVEL OF FIXTURE. PROVIDE 45° CONNECTION TO WASTE / SANITARY LINE.
- 4 REFER TO P-700 SERIES FOR RISER DIAGRAMS.

KEYNOTES

- 1 COORDINATE INSTALLATION WITH STANDING SEAM ROOF RIDGES.

check arch for roof penetration detail

KEYPLAN



SYMBOL	DESCRIPTION	DATE	APPROVED



PRELIMINARY
NOT FOR CONSTRUCTION



Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE
DES DRW CHK
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
JACKSONVILLE, NC
ROIC FLORENCE CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
PLUMBING - OVERALL - ROOF PLAN

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
ROIC FLORENCE CAMP LEJEUNE
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
PLUMBING - OVERALL - ROOF PLAN
PRE-FINAL SUBMISSION

SCALE: AS NOTED
PROJECT NO.: 1590892
CONSTR. CONTR. NO.: N40085-20-C-0059
NAVFAC DRAWING NO.:
SHEET OF
P-150

FILE NAME: BIM360/HF PACKAGE 3P1338.MEF SIM CTR-1590892-M.rvt

PLOTTED: 5/28/2021 2:18:00 PM

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GENERAL NOTES

- 1 SEE P-001 FOR GENERAL NOTES, ABBREVIATIONS & SYMBOLS.
- 2 REFER TO STRUCTURAL DRAWINGS FOR THE EXACT SIZE, LOCATION, AND ELEVATION OF FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
- 3 REFER TO STRUCTURAL DRAWINGS FOR DETAILS OF PIPE CROSSINGS UNDER OR THROUGH THE STRUCTURAL FOUNDATIONS, FOOTINGS AND GRADE BEAMS.
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- 6 UNDERFLOOR SANITARY SEWER PIPING SHALL BE A MINIMUM OF 4" UNLESS NOTED OTHERWISE.
- 7 REFER TO P-700 SERIES FOR RISER DIAGRAMS.

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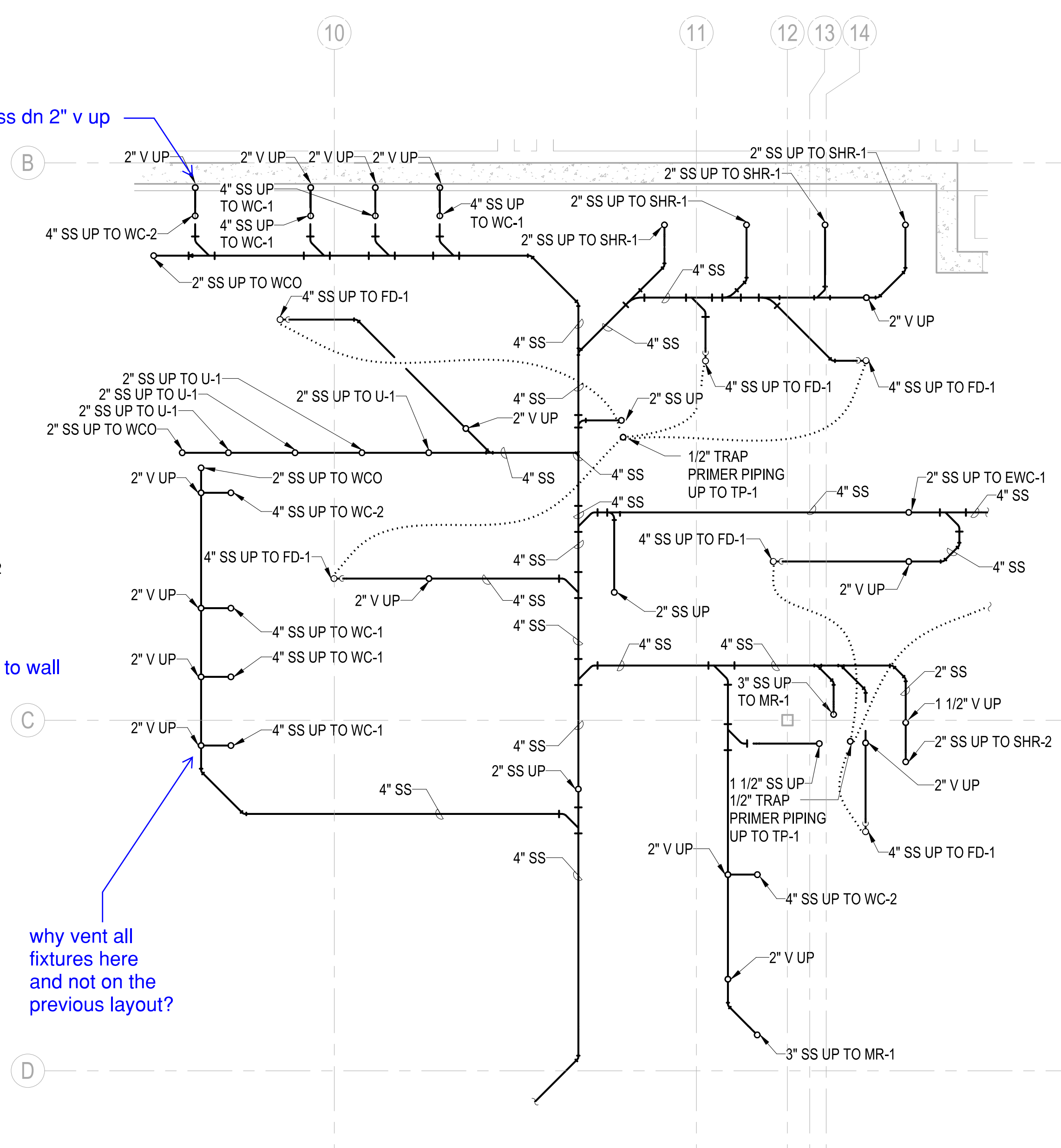
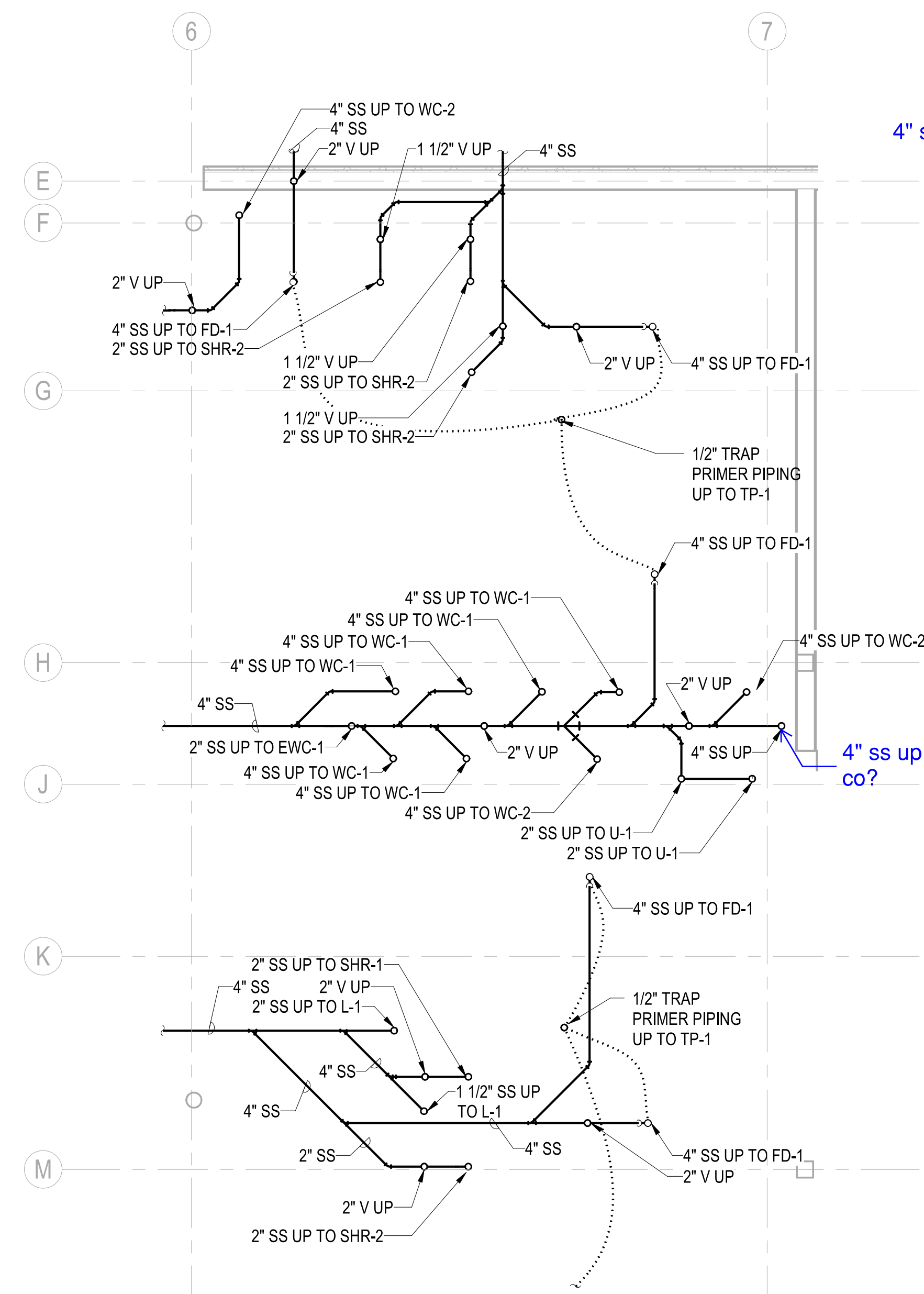
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4" ss dn 2" v up

4" ss up to wall co?

why vent all fixtures here and not on the previous layout?

PLUMBING - ENLARGED PLAN - UNDERGROUND AREA A

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

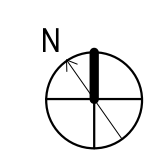
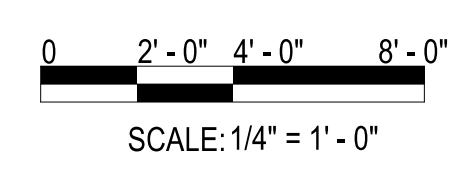
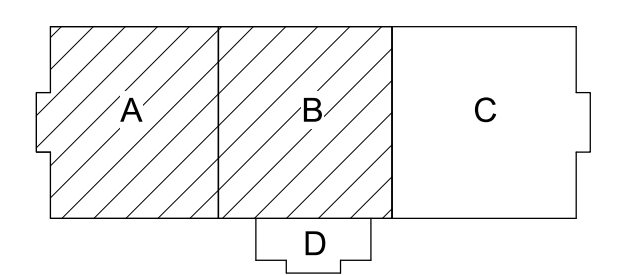
PU111 A1

PLUMBING - ENLARGED PLAN - UNDERGROUND AREA B

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

PU110 A3

KEYPLAN



SYMBOL	DESCRIPTION	DATE	APPROVED



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Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE
DES: DRW: CHK:
PM:
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
MCCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
PLUMBING - ENLARGED PLANS
PLUMBING - PRE-FINAL SUBMISSION

SCALE: AS NOTED
PROJECT NO.: 1500892
CONSTR. CONTR. NO.: N40085-20-C-0059
NAVFAC DRAWING NO.:
SHEET OF
P-401

FILE NAME: BIM_360/HF PACKAGE 3P1338.MEF_SIM_CTR-1500892-M.rvt
PLOTTED: 5/28/2021 2:18:05 PM

DF2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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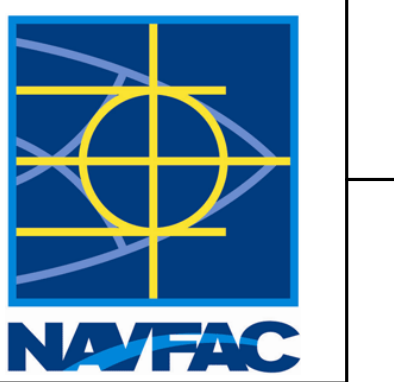
B

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GENERAL NOTES

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SYMBOL	DESCRIPTION	DATE	APPROVED



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Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND
MID-ATLANTIC
JACKSONVILLE, NC

ROIC FLORENCE CAMP LEJEUNE
MBC CAMP LEJEUNE
JACKSONVILLE, NC

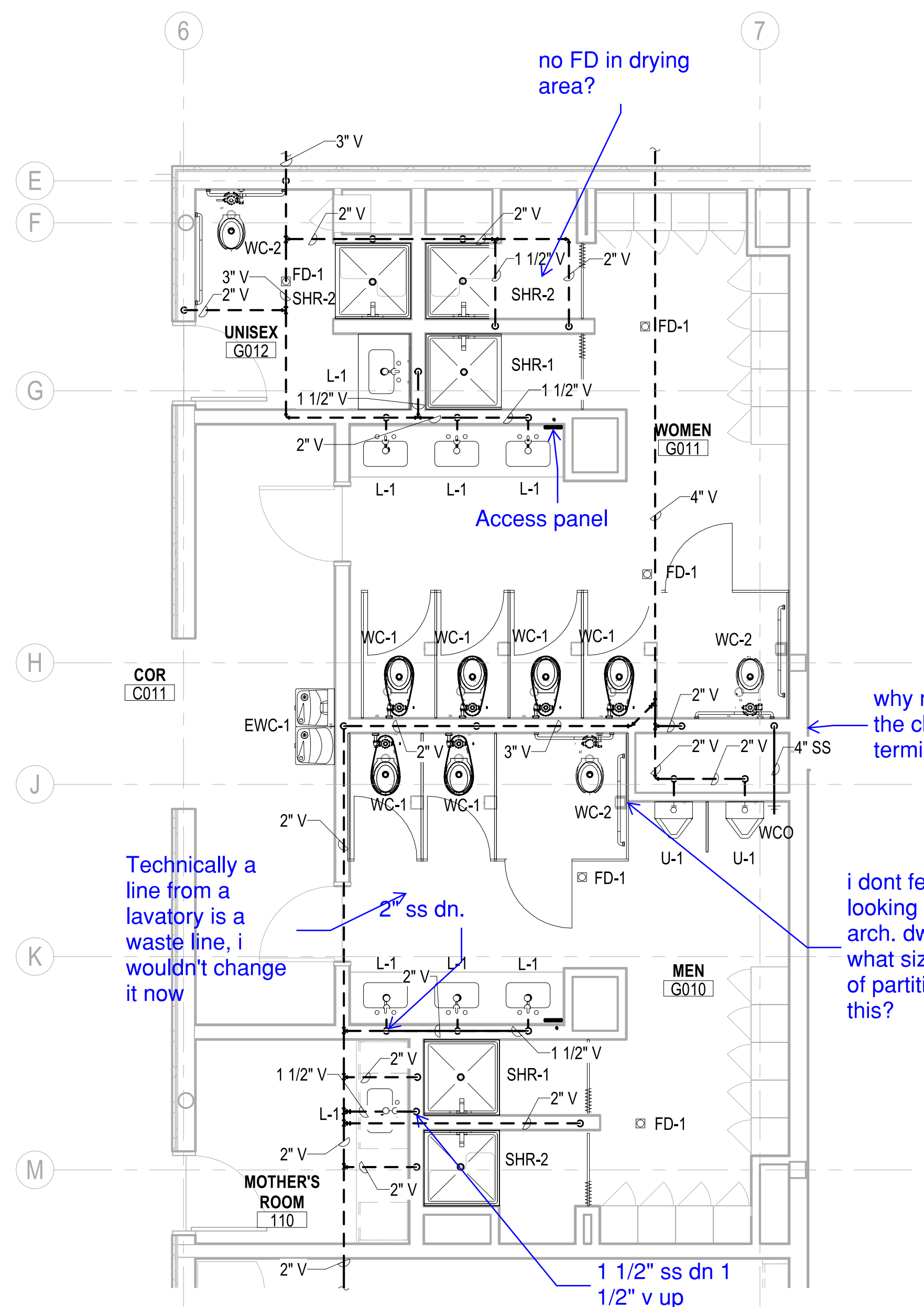
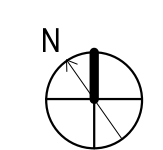
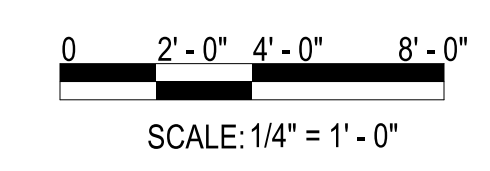
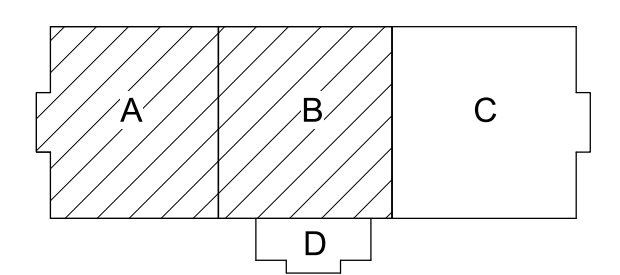
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
PLUMBING - ENLARGED PLANS

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

SCALE: AS NOTED
PROJECT NO.: 1500892
CONSTR. CONTR. NO.: N40085-20-C-0059
NAVFAC DRAWING NO.:
SHEET OF

P-402

KEYPLAN

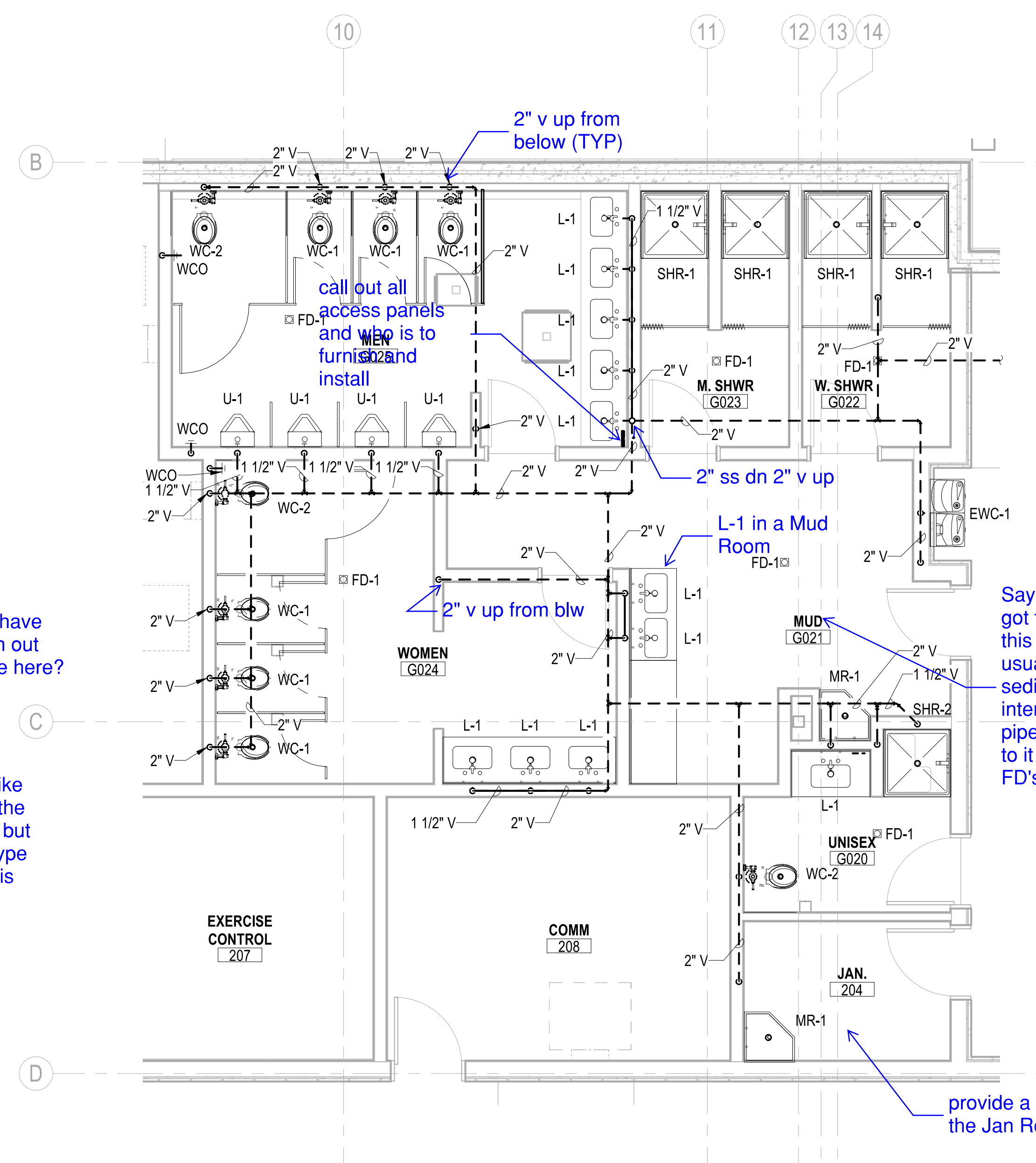


PLUMBING - ENLARGED PLAN - AREA A SANITARY & VENT

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

P-110

A1



PLUMBING - ENLARGED PLAN - AREA B SANITARY & VENT

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

P-110

A3

no FD in drying area?

Access panel

Technically a line from a lavatory is a waste line, i wouldn't change it now

2" ss dn.

1 1/2" ss dn 1 1/2" v up

why not have the clean out terminate here?

i dont feel like looking on the arch. dwgs but what size/type of partition is this?

2" v up from below (TYP)

call out all access panels and who is to furnish and install

2" ss dn 2" v up

L-1 in a Mud Room

2" v up from blw

Say what? we got to talk about this room. we usually install a sediment interceptor and pipe all fixtures to it including FD's

nothing in the rfp?

provide a FD in the Jan Room

FILE NAME: BIM360/HF PACKAGE 3P1338.MEF SIM CTR-1500892.Mxd

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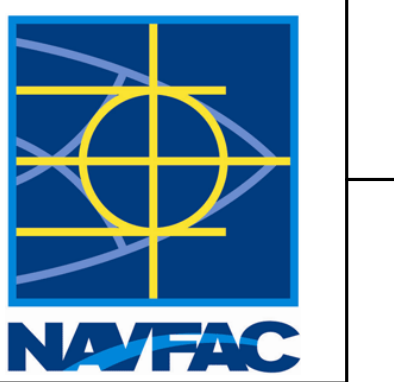
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GENERAL NOTES

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PRELIMINARY
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Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE
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FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROIC FLORENCE CAMP LEJEUNE
JACKSONVILLE, NC

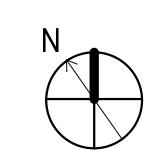
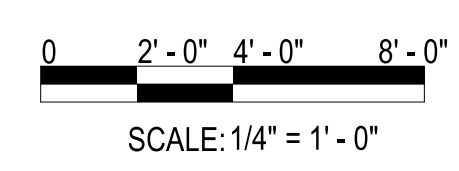
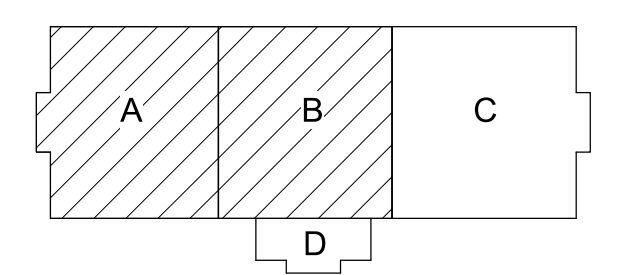
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
PLUMBING - ENLARGED PLANS

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

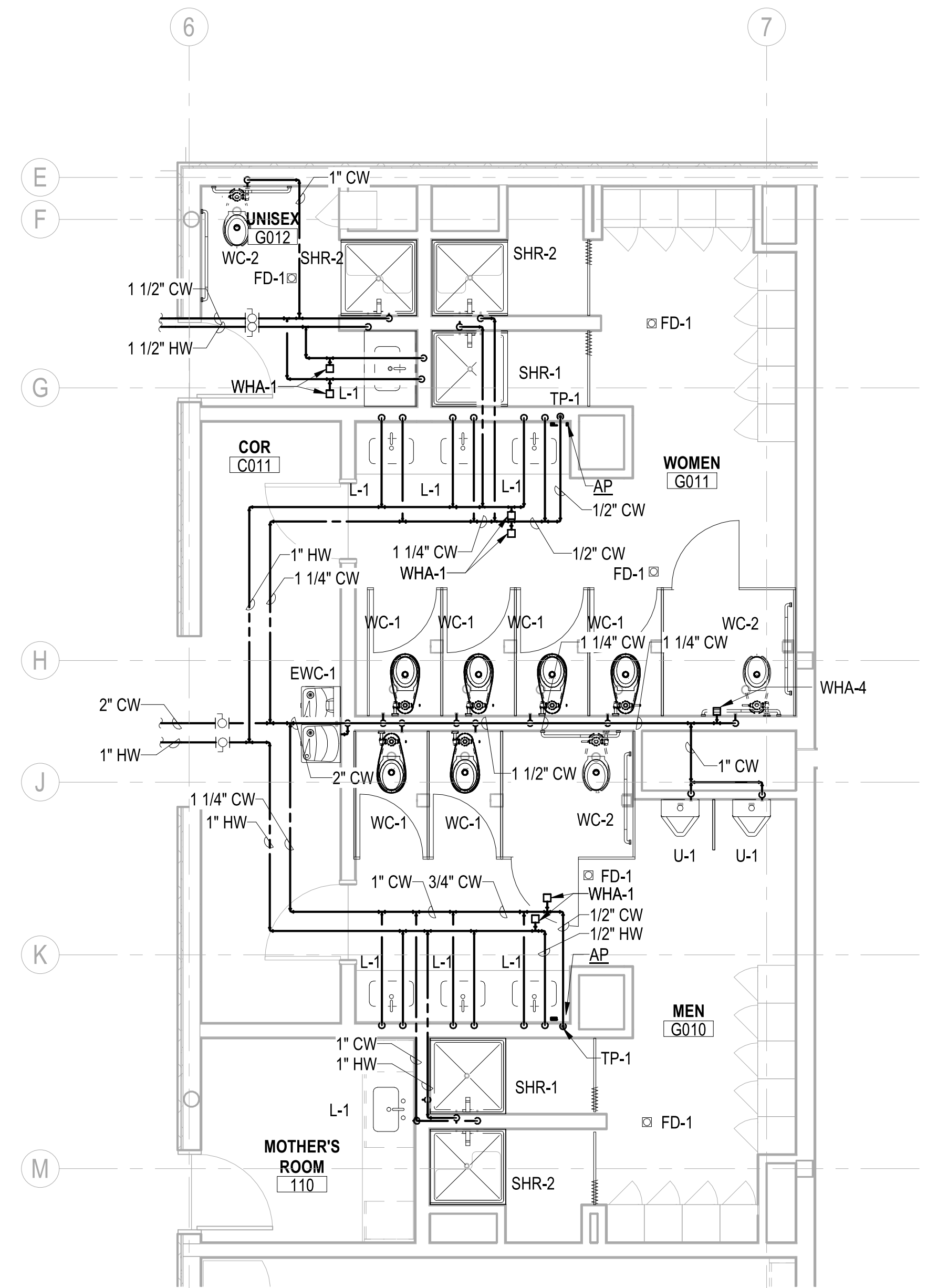
SCALE: AS NOTED
EPROJCT NO.: 1500892
CONSTR. CONTR. NO.: N40085-20-C-0059
NAVFAC DRAWING NO.:
SHEET OF

P-403

KEYPLAN



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



PLUMBING - ENLARGED PLAN - AREA A WATER

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

P-110

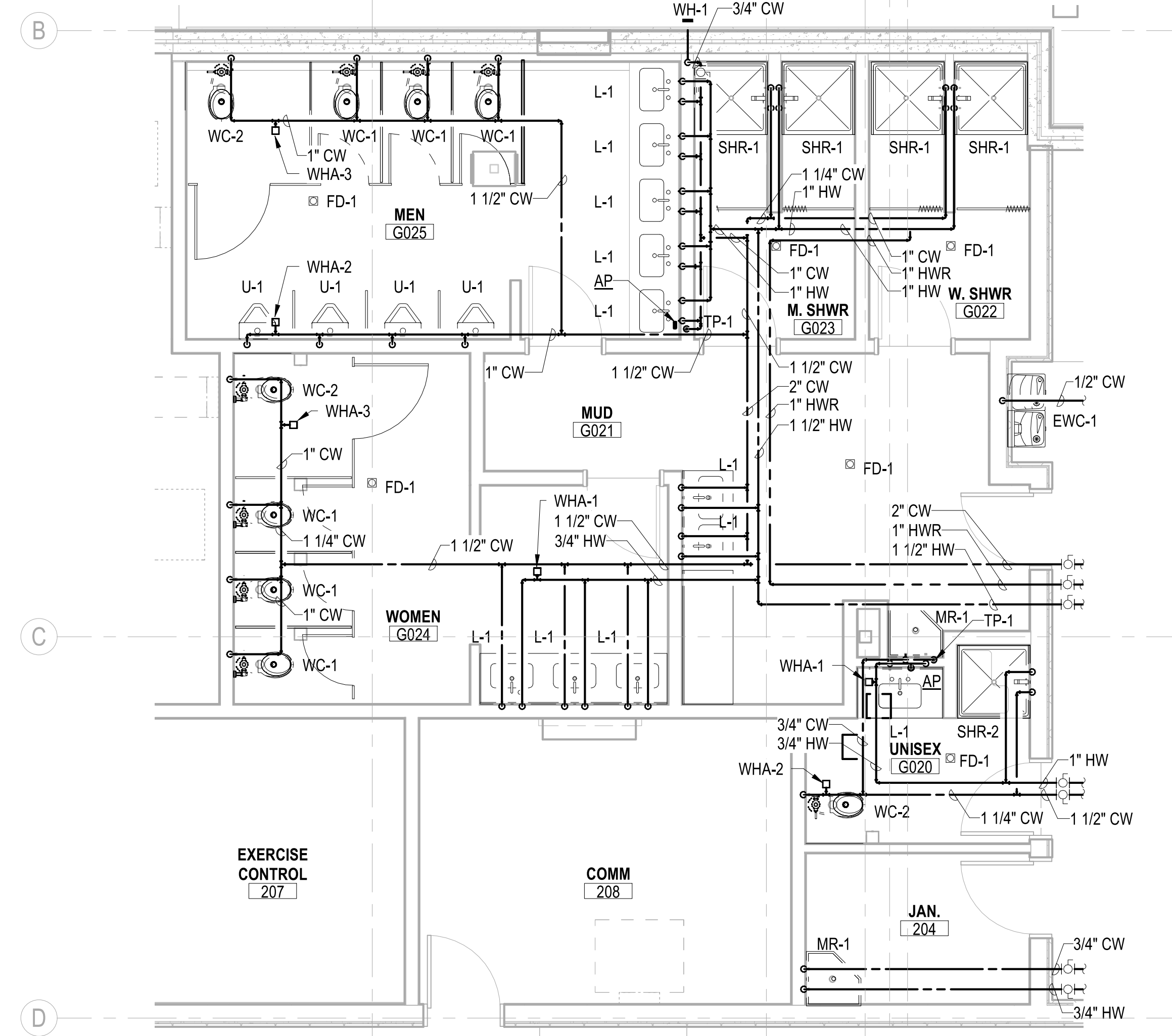
A1

PLUMBING - ENLARGED PLAN - AREA B WATER

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

P-110

A3



FILE NAME: BIM360/HF PACKAGE 3P1338.MEF SIM CTR-1500892-M.rvt

PLOTTED: 5/28/2021 2:18:26 PM

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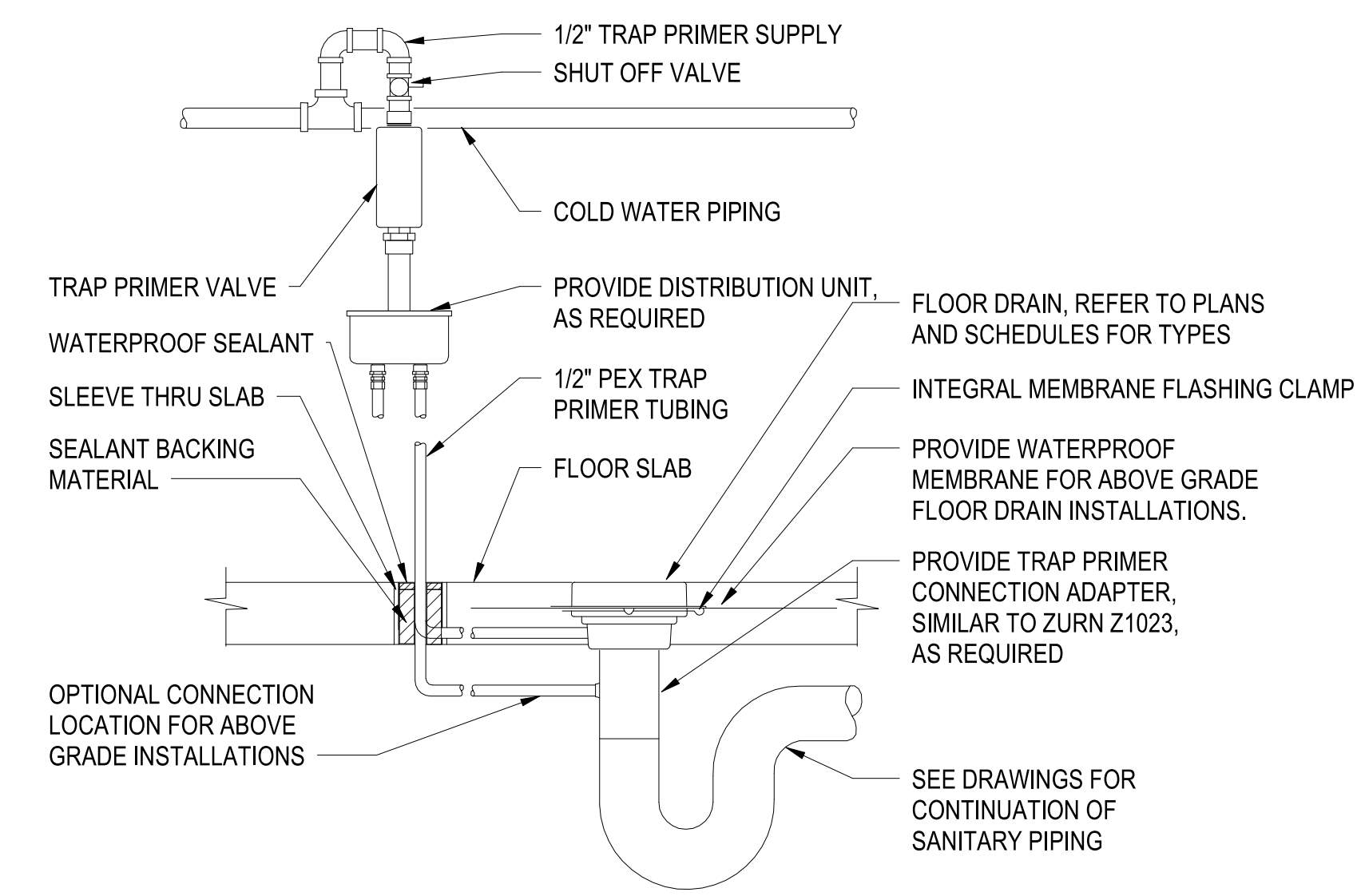
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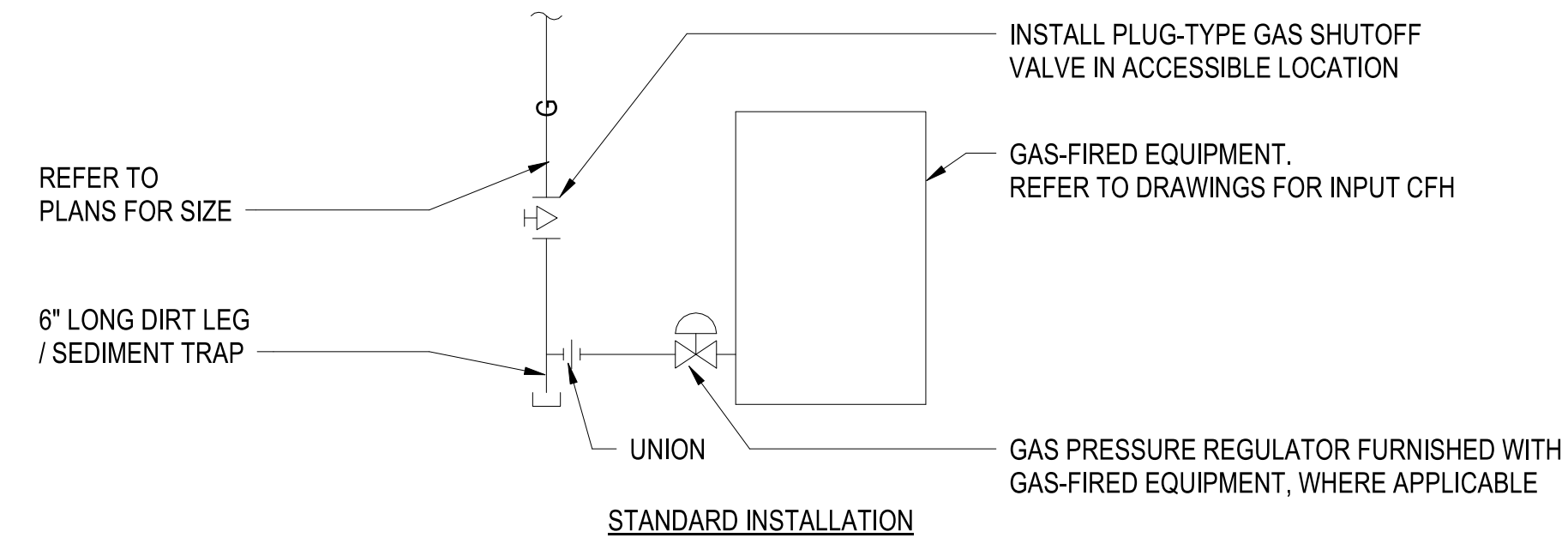
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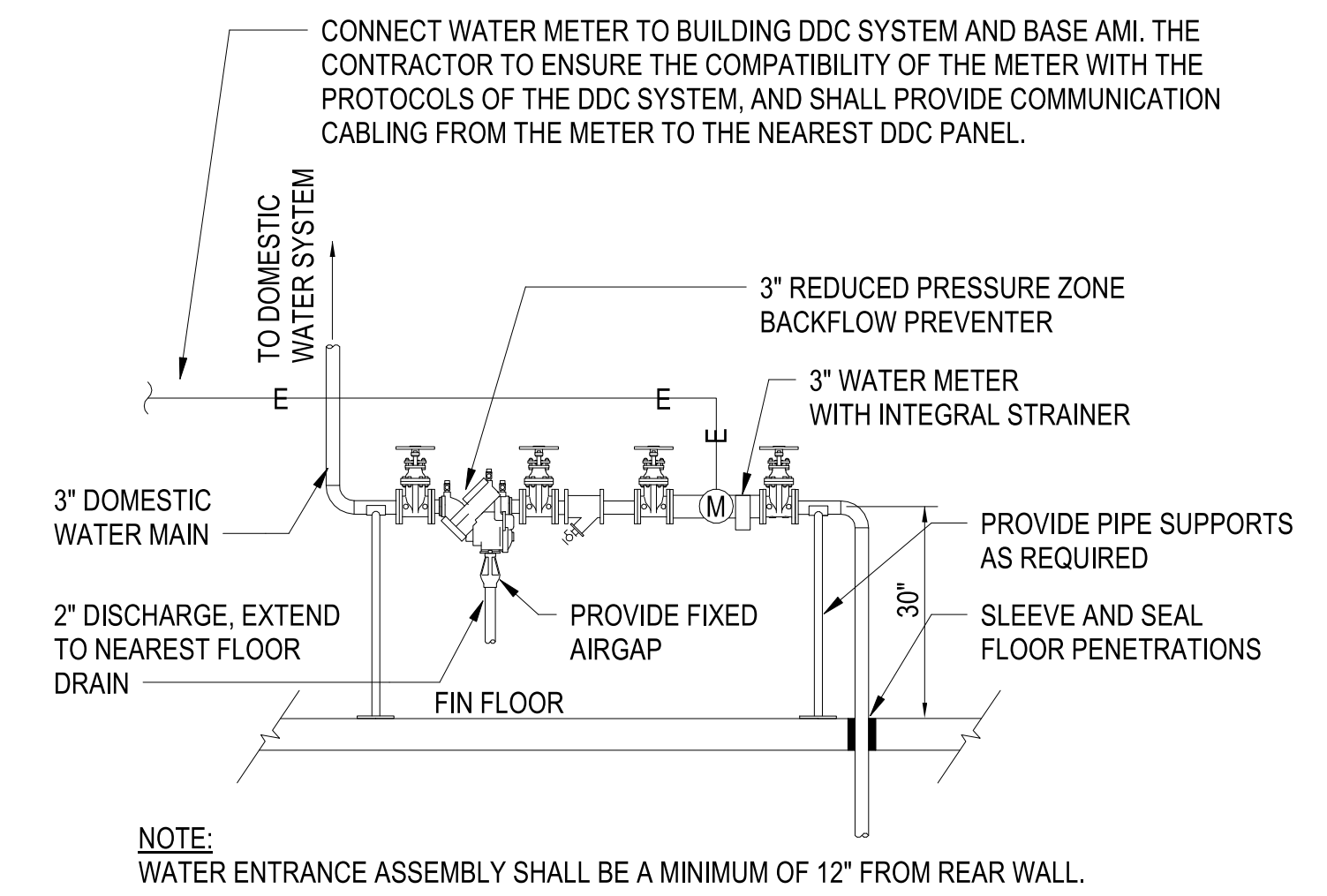
FLOOR DRAIN AND TRAP PRIMER VALVE DETAIL
SCALE: NTS

C1



NATURAL GAS CONNECTION DETAIL
SCALE: NTS

C3

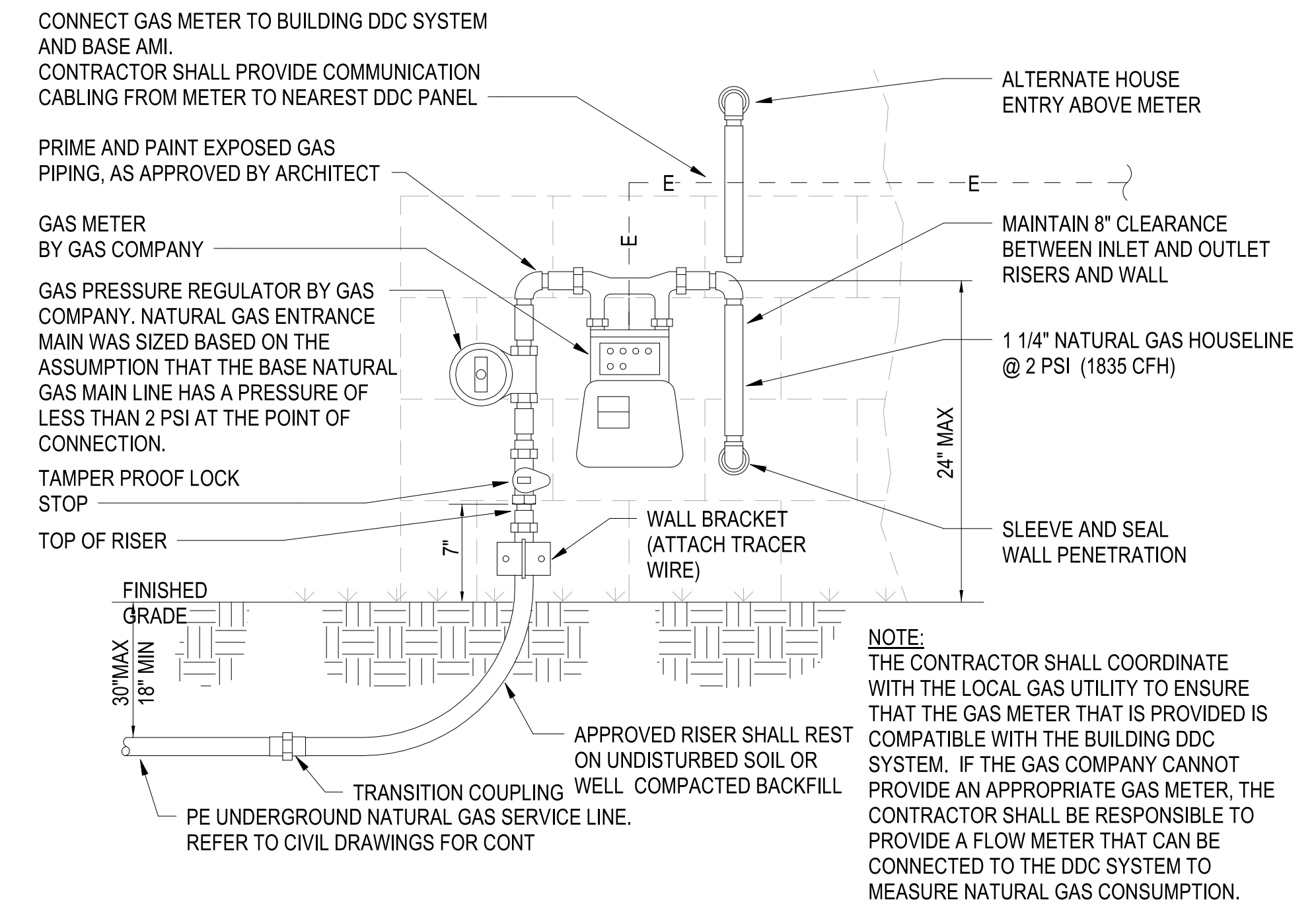


WATER SERVICE ENTRANCE
SCALE: NTS

C4

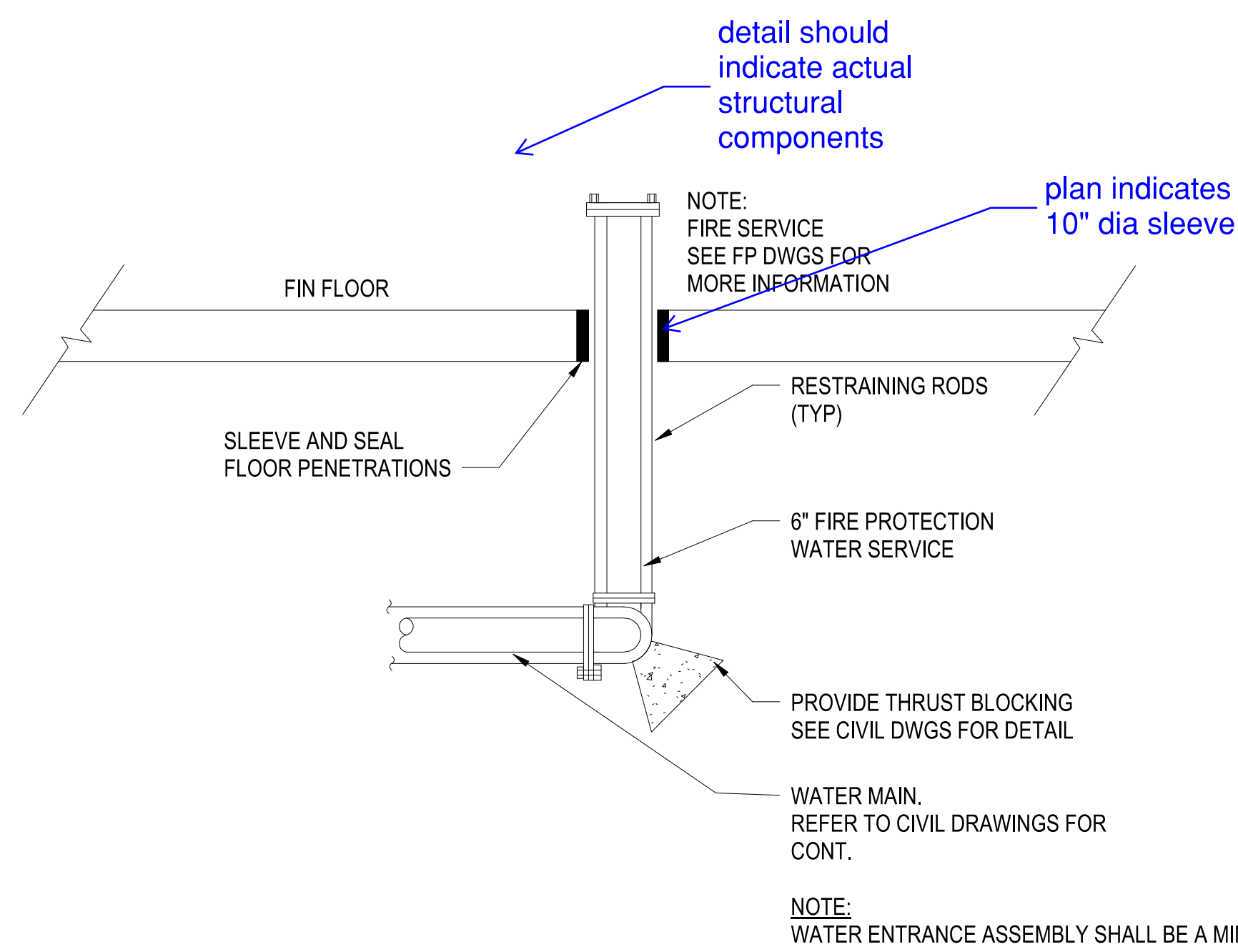
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GAS METER DETAIL
SCALE: NTS

B1



FIRE PROTECTION SERVICE ENTRANCE DETAIL
SCALE: NTS

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FILE NAME: BIM_360/HF PACKAGE_3P11338_MEF_SIM CTR-1500892-M.rvt

PLOTTED: 5/28/2021 2:18:28 PM

APPR	
DATE	
SYN	DESCRIPTION
	
<p>PRELIMINARY NOT FOR CONSTRUCTION</p>	
	
<p>Michael Baker INTERNATIONAL</p>	
<p>100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 A/E IN/PD</p>	
<p>APPROVED</p>	
<p>FOR COMMANDER NAVFAC</p>	
<p>ACTIVITY</p>	
<p>MARINE CORPS BASE CAMP LEJEUNE</p>	
<p>SATISFACTORY TO DATE</p>	
DES	CHK
DRW	CHK
<p>PM</p>	
<p>BRANCH MANAGER</p>	
<p>CHIEF ENGINEER</p>	
<p>FIRE PROTECTION</p>	
<p>NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC ROICC FLORENCE CAMP LEJEUNE MBC CAMP LEJEUNE JACKSONVILLE, NC</p>	
<p>P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT PLUMBING - DETAILS</p>	
<p>SCALE: AS NOTED</p>	
<p>PROJECT NO.: 1500892</p>	
<p>CONSTR. CONTR. NO. N40085-20-C-0059</p>	
<p>NAVFAC DRAWING NO.</p>	
SHEET	OF
<p>P-501</p>	

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

UNCLASSIFIED

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PLUMBING FIXTURE SCHEDULE												
TAG	FIXTURE	BASIS OF DESIGN	DESCRIPTION	SAN	VENT	CW	HW	DFU	SFU			NOTES
									HW	CW	TOTAL	
WC-1	WATER CLOSET	FIXTURE: AMERICAN STANDARD #3451.128 VALVE: SLOAN #ECOS 111-1.28-HW SEAT: OLSONITE #95SSCT	FLOOR MOUNTED, VITREOUS CHINA, HARD-WIRED INFRARED FLUSH VALVE, 1.28 GPF	4"	2"	1"	-	4	-	10	10	1,2,3,4,9
WC-2	WATER CLOSET	FIXTURE: AMERICAN STANDARD #3461.128 VALVE: SLOAN #ECOS 111-1.28-HW SEAT: OLSONITE #95SSCT	FLOOR MOUNTED, VITREOUS CHINA, HARD-WIRED INFRARED FLUSH VALVE, 1.28 GPF, ADA COMPLIANT china	4"	2"	1"	-	4	-	10	10	1,2,3,4,9
U-1	URINAL	FIXTURE: AMERICAN STANDARD #6590.001 VALVE: SLOAN #ECOS 186HW-0.5 CARRIER: ZURN #Z1222	WALL HUNG, VITREOUS CHINE, HARD-WIRED INFRARED FLUSH VALVE, 0.5 GPF, WALL URINAL SUPPORT SYSTEM	2"	1 1/2"	3/4"	-	0.5	-	5	5	1, 2, 4, 9
L-1	LAVATORY	FAUCET: MOEN #CA8302	SOLID SURFACE, INTEGRAL TO COUNTERTOP, HARD-WIRED INFRARED FAUCET, 0.5 GPM	1 1/2"	1 1/2"	1/2"	1/2"	1	1.5	1.5	2	1,2,4,5,6,9
S-1	SINK	FIXTURE: ELKAY #ELUHAD3118 FAUCET: MOEN #8287	DOUBLE COMPARTMENT 18 GAUGE STAINLESS STEEL, 0.5 GPM FAUCET WITH GOOSENECK SPOUT	1 1/2"	1 1/2"	1/2"	1/2"	2	1.5	1.5	2	1,2,5,9
EWC-1	ELECTRIC WATER COOLER	FIXTURE: ELKAY #LZSTL8WSSK	WALL HUNG, DUAL HEIGHT UNIT, FRONT & SIDE PUSH PADS, FILTERED BOTTLE FILLER, CANE APRON, ADA COMPLIANT, 120 VOLTS/1PH/60HZ, 370 WATTS, 4.0 FLA	1 1/2"	1 1/2"	1/2"	-	0.5	-	0.25	0.25	1,2,9
SHR-1	SHOWER	VALVE: SYMMONS #1-901	SOLID SURFACE SHOWER BASE WITH SOLID SURFACE WALL PANELS, PRESSURE BALANCING MIXING VALVE, 1.5 GPM STATIONARY SHOWER HEAD, STAINLESS STEEL INSTITUTIONAL BRACKET	2"	1 1/2"	1/2"	1/2"	2	3	3	4	1,2,9
SHR-2	SHOWER	VALVE: SYMMONS #1-901T724	SOLID SURFACE SHOWER BASE WITH SOLID SURFACE WALL PANELS, PRESSURE BALANCING MIXING VALVE, 1.5 GPM STATIONARY SHOWER HEAD, STAINLESS STEEL INSTITUTIONAL BRACKET, HAND-HELD SHOWER WITH 60" HOSE, TRANSFER SEAT, ADA COMPLIANT	2"	1 1/2"	1/2"	1/2"	2	3	3	4	1,2,9
MR-1	MOP RECEPTOR	FIXTURE: FIAT #TBS-3010 FAUCET: MOEN #8230	24"x24" TERRAZZO BASIN WITH 6" DROP FRONT, STAINLESS STEEL THRESHOLD CAP, SERVICE SINK FAUCET WITH INTEGRAL VACUUM BREAKER & WALL BRACE, STAINLESS STEEL WALL SURROUND, HOSE & BRACKET	3"	2"	1/2"	1/2"	2	2.25	2.25	3	1,2,9
HB-1	HOSE BIBB	FIXTURE: WATTS #SC8	EXPOSED, WITH VACUUM BREAKER	-	-	1/2"	-	-	-	-	-	1,2,7,9
WH-1	WALL HYDRANT	FIXTURE: WATTS #HY-725	NON-FREEZE, CONCEALED, KEY OPERATED WALL HYDRANT, NICKEL BRONZE BOX AND DOOR, INTEGRAL VACUUM BREAKER, ALL BRONZE HEAD, SEAT CASTING AND INTERNAL WORKING PARTS, ASSE 1019	-	-	3/4"	-	-	-	-	-	1,2,8,9
TP-1	TRAP PRIMER VALVE ASSEMBLY	FIXTURE: PRECISION PLUMBING PRODUCTS #P1-500 WITH DU-4	AUTOMATIC, PRESSURE-ACTIVATED VALVE, 4-WAY DISTRIBUTION UNIT, FOR 1-4 FLOOR DRAINS	-	-	(1-4) - 1/2"	-	-	-	-	-	1,2,9
OB-1	OUTLET BOX	FIXTURE: OATEY #39142	RECESSED POLYSTYRENE BOX WITH TWO 1/4 TURN BALL VALVES WITH WATER HAMMER ARRESTOR, 6 FOOT STAINLESS STEEL HOSE	-	-	1/2"	-	-	-	-	-	1,2,9
YH-1	YARD HYDRANT	FIXTURE: WATTS YH-800	NON-FREEZE YARD HYDRANT, EPOXY COATED CAST IRON HEAD, LIFT HANDLE, GALVANIZED CASING, 1/8" NPT DRAIN PORT	-	-	3/4"	-	-	-	-	-	1,2,9

- NOTES: 1. INSTALL FIXTURE AND ALL ASSOCIATED ACCESSORIES AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
 2. PROVIDE ALL REQUIRED ACCESSORIES AND APPURTENANCES, INCLUDING BUT NOT LIMITED TO, COUPLINGS, STUDS & GASKETS, SUPPLIES & STOPS, ESCUTCHEONS, TAILPIECES AND P-TRAPS.
 3. FOR ADA COMPLIANT WATER CLOSETS, FLUSH VALVE CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF THE WATER CLOSET. COORDINATE INSTALLATION OF FLUSH VALVE WITH GRAB BAR. REFER TO ARCHITECTURAL DRAWINGS.
 4. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.
 5. PROVIDE PRE-MOLDED INSULATION ON EXPOSED CW & HW SUPPLIES AND STOPS, AND DRAIN PIPING BELOW FIXTURES.
 6. PROVIDE THERMOSTATIC MIXING VALVE, COMPLYING WITH ASSE 1070, BELOW FIXTURE.
 7. INSTALL AT 18" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
 8. INSTALL AT 36" ABOVE FINISHED GRADE, UNLESS OTHERWISE NOTED.
 9. BASIS OF DESIGN INDICATED IS TO PROVIDE A REFERENCE AND IS NOT INTENDED TO INDICATE A SINGLE SOURCE OF PROCUREMENT.

5/28/2021 10:51

DATE	APPR
SYN	DESCRIPTION
	
	
	
	
100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 A/E/IN/P	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
MARINE CORPS BASE CAMP LEJEUNE	
SATISFACTORY TO DATE	
DES	DRW
PM	CHK
BRANCH MANAGER	
CHIEF ENGINEER	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC ROICC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC MCB CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT PLUMBING - SCHEDULES	
SCALE:	AS NOTED
EPROJCT NO.:	1590892
CONSTR. CONTR. NO.:	N40085-20-C-0059
NAVFAC DRAWING NO.:	
SHEET	OF
P-601	

PLOTTED: 5/28/2021 2:18:31 PM

FILE NAME: BIM_360/HF PACKAGE 3P1338_MEF_SIM CTR-1590892-M.rvt

MIXING VALVE SCHEDULE

TAG	LOCATION	ASSE NO.	MINIMUM FLOW RATE (GPM)	MAXIMUM FLOW RATE (GPM) (SEE NOTE 2)	CONNECTIONS		BASIS OF DESIGN		NOTES
					INLET (IN)	OUTLET (IN)	MANUF	MODEL	
MV-1	MASTER	1017	1	91	1 1/4"	1 1/4"	BRADLEY	NSR-20	1, 2, 3
MV-2	HANDWASHING SINKS	1070	0.2	3.5	1/2"	1/2"	BRADLEY	S59-4007	1, 2, 3

NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
 2. AT 10 PSI SYSTEM PRESSURE DROP
 3. BASIS OF DESIGN INDICATED IS TO PROVIDE A REFERENCE AND IS NOT INTENDED TO INDICATE A SINGLE SOURCE OF PROCUREMENT.

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BACKFLOW PREVENTER (BFP) SCHEDULE

TAG	TYPE	SYSTEM	LOCATION	NOMINAL SIZE (IN)	FLOW RATE (GPM)	MAXIMUM PRESSURE DROP (PSI)	NOTES
BFP-1	REDUCED PRESSURE ZONE	DOMESTIC WATER	MECH ROOM	3"	119.8	7.2	1, 2, 3, 4
BFP-2	REDUCED PRESSURE ZONE	MAKE-UP WATER	MECH ROOM	3/4"	-	-	1, 2, 3, 4

NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
 2. PROVIDE FIXED AIRGAP. DISCHARGE TO NEAREST FLOOR DRAIN.
 3. ALL INSTALLED BACKFLOW PREVENTERS TO BE TESTED AND CERTIFIED AT THE COMPLETION OF THE... BY A PERSON CERTIFIED TO TEST THESE DEVICES, AND THE TEST RESULTS SUBMITTED.
 4. INSTALL AT A MAXIMUM OF 60" ABOVE FINISHED FLOOR.

5/28/2021 11:15

WATER HAMMER ARRESTOR (WHA) SCHEDULE

TAG	P.D.I. SIZE	CONNECTION SIZE (IN)	TYPE	FIXTURE UNIT CAPACITY	NOTES
WHA-1	A	3/4"	PISTON-TYPE	1 TO 11 SFU	1, 2, 3
WHA-2	B	3/4"	PISTON-TYPE	12 TO 32 SFU	1, 2, 3
WHA-3	C	1"	PISTON-TYPE	33 TO 60 SFU	1, 2, 3
WHA-4	D	1"	PISTON-TYPE	61 TO 113 SFU	1, 2, 3
WHA-5	E	1"	PISTON-TYPE	114 TO 154 SFU	1, 2, 3
WHA-6	F	1"	PISTON-TYPE	155 TO 330 SFU	1, 2, 3

NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
 2. PROVIDE WATER HAMMER ARRESTORS AT FLUSH VALVE-OPERATED FIXTURES, SOLENOID VALVES, AND ANY OTHER QUICK CLOSING VALVES.
 3. FURNISH ACCESS PANELS, WHERE REQUIRED, FOR INSTALLATION BY GENERAL CONTRACTOR.

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FLOOR DRAIN SCHEDULE

TAG	DESCRIPTION	LOCATION	STRAINER SIZE	STRAINER MATERIAL	BODY MATERIAL	OPEN DRAIN AREA (in²)	ACCESSORIES	BASIS OF DESIGN		NOTES
								MANUF	MODEL	
FD-1	FLOOR DRAIN	TOILET ROOMS & SHOWERS	8"ø	NICKEL BRONZE	CAST IRON	12	1/2" TRAP PRIMER CONNECTION	JAY R. SMITH	#2010	1, 2
FD-2	FLOOR DRAIN	MECHANICAL ROOM	12"ø	ACRYLIC COATED CAST IRON	CAST IRON	14.25	1/2" TRAP PRIMER CONNECTION, SEDIMENT BUCKET	JAY R. SMITH	#2110	1, 2
FS-1	FLOOR SINK	WATER SERVICE ENTRANCE	12"x12"	ACRYLIC COATED CAST IRON	CAST IRON	31	1/2" TRAP PRIMER CONNECTION, INTERIOR DOME STRAINER, 1/2 GRATE	JAY R. SMITH	#3110	1, 2

NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
 2. BASIS OF DESIGN INDICATED IS TO PROVIDE A REFERENCE AND IS NOT INTENDED TO INDICATE A SINGLE SOURCE OF PROCUREMENT.

5/28/2021 10:51

GAS REGULATOR SCHEDULE

TAG	SERVICE	CAPACITY (CFH)	INLET PRESSURE (IN PSI)	OUTLET PRESSURE (IN WC)	NOTES
GR-1	GWH-1	199	2	14	1, 2
GR-2	GWH-2	199	2	14	1, 2
GR-3	B-1, B-2, B-3	399	2	14	1, 2

NOTES: 1. REFER TO MECHANICAL PLANS FOR ADDITIONAL EQUIPMENT INFORMATION AND LOCATIONS.
 2. REFER TO PLUMBING PLANS FOR GAS REGULATOR LOCATIONS.

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EXPANSION TANK SCHEDULE

TAG	TYPE	SYSTEM	LOCATION	DIMENSIONS DIA X H (in)	CONNECTIONS (in)	VOLUME		FACTORY PRE-CHARGE PRESSURE (PSI)	BASIS OF DESIGN		NOTES
						TANK (GAL)	ACCEPTANCE (GAL)		MANUF	MODEL	
ET-1	FIXED BLADDER	DOMESTIC COLD WATER	MECH ROOM	10" x 37"	1"	10	10	25	AMTROL	ST-35-CL	1, 2, 3

NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
 2. CONTRACTOR SHALL FIELD ADJUST THE PRE-CHARGED PRESSURE TO EQUAL TO COLD WATER SUPPLY SCHEDULE.
 3. BASIS OF DESIGN INDICATED IS TO PROVIDE A REFERENCE AND IS NOT INTENDED TO INDICATE A SINGLE SOURCE OF PROCUREMENT.

5/28/2021 10:51

RECIRCULATION PUMP (RP) SCHEDULE

TAG	PUMP TYPE	SYSTEM	LOCATION	FLOW RATE (GPM)	HEAD	CONNECTIONS		ELECTRICAL				BASIS OF DESIGN		NOTES
						SUCTION (IN)	DISCHARGE (IN)	W	VOLTS	PHASE	HERTZ	AMPS	MANUF	
RP-1	IN-LINE CIRCULATOR	DOMESTIC HOT WATER RETURN	MECH ROOM	5.0	37.0	1.0	1.0	370.0	115.0	1.0	60.0	GRUNDFOS	UPS 26-150	1, 2, 3

NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
 2. PROVIDE TIME CLOCK AND AQUASTAT FOR PUMP CONTROL.
 3. BASIS OF DESIGN INDICATED IS TO PROVIDE A REFERENCE AND IS NOT INTENDED TO INDICATE A SINGLE SOURCE OF PROCUREMENT.

5/28/2021 10:51

GAS-FIRED WATER HEATER SCHEDULE



TAG	TYPE	LOCATION	DIMENSIONS DIA x H (IN)	STORAGE (GAL)	RECOVERY (GPH)	TEMPERATURE RISE (°F)	STORAGE TEMPERATURE (°F)	CONNECTIONS					ELECTRICAL				BASIS OF DESIGN		NOTES
								CW (IN)	HW (IN)	GAS	GAS VENT	AIR INLET	VOLTS	PHASE	HERTZ	AMPS	MANUF	MODEL	
GWH-1	STORAGE TANK	MECH ROOM	28"x76"	90	232	78	140	1 1/2"	1 1/2"	1/2"	3"	3"	120	1	60	3	LOCHINVAR	SHIELD	1, 2, 3, 4, 5
GWH-2	STORAGE TANK	MECH ROOM	28"x76"	90	232	78	140	1 1/2"	1 1/2"	1/2"	3"	3"	120	1	60	3	LOCHINVAR	SHIELD	1, 2, 3, 4, 5

NOTES: 1. INSTALL IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
 2. RECOVERY RATE AT 100°F RISE.
 3. PROVIDE TERMINAL KIT FOR EXTENSION OF GAS VENT AND COMBUSTION AIR THRU EXTERIOR WALL. REFER TO HVAC DRAWINGS FOR GAS VENTING AND AIR INLET PIPING.
 4. PROVIDE CONDENSATE NEUTRALIZATION KIT.
 5. BASIS OF DESIGN INDICATED IS TO PROVIDE A REFERENCE AND IS NOT INTENDED TO INDICATE A SINGLE SOURCE OF PROCUREMENT.

5/28/2021 10:51

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FILE NAME: BIM_360/HF PACKAGE 3P11338.MEF_SIM CTR-1590892-M.rvt

	
PRELIMINARY NOT FOR CONSTRUCTION	
Michael Baker International <small>100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108</small>	
FOR COMMANDER NAVFAC ACTIVITY MARINE CORPS BASE CAMP LEJEUNE	
SATISFACTORY TO DATE DES _____ DRW _____ CHK _____ PM _____ BRANCH MANAGER _____ CHIEF ENGINEER _____ FIRE PROTECTION _____	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC ROICC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT PLUMBING - SCHEDULES	
SCALE: AS NOTED EPROJECT NO.: 1590892 CONSTR. CONTR. NO.: N40085-20-C-0059 NAVFAC DRAWING NO.: SHEET _____ OF _____ P-602	

DP2 SUBMISSION - P1338 BUILDING -PRE-FINAL SUBMISSION

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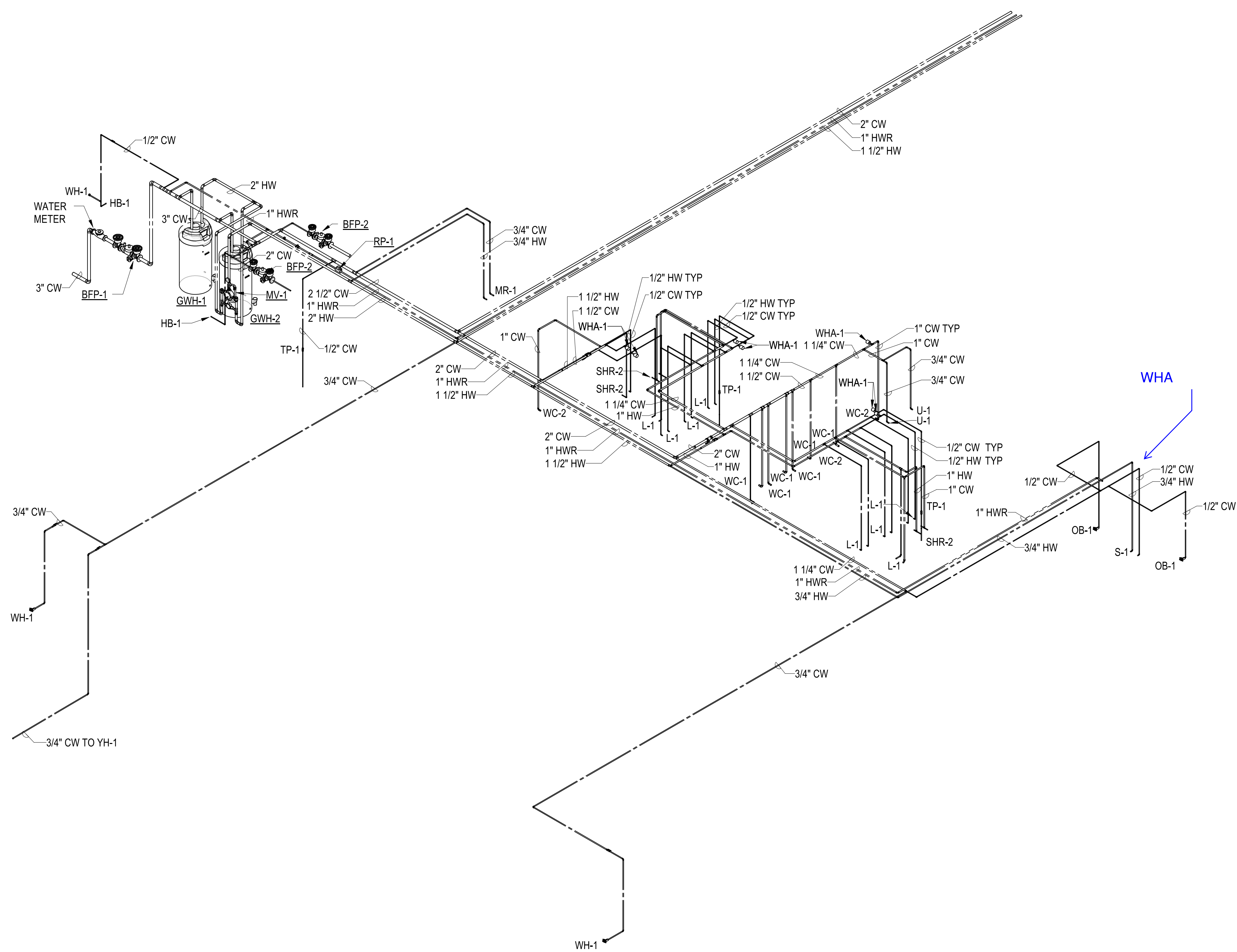
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FILE NAME: BIM_360/HF PACKAGE 3P1338_MEF_SIM CTR-1590892-M.rvt
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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
M/CB CAMP LEJEUNE
JACKSONVILLE, NC

DOMESTIC WATER RISER DIAGRAM - AREA A

SCALE:



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SYMBOL	DESCRIPTION	DATE	APPROVED
			
PRELIMINARY NOT FOR CONSTRUCTION			
			
Michael Baker INTERNATIONAL 100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY			
MARINE CORPS BASE CAMP LEJEUNE			
SATISFACTORY TO DATE			
DES	DRW	CHK	
PM			
BRANCH MANAGER			
CHIEF ENGINEER			
FIRE PROTECTION			
NAVAL FACILITIES ENGINEERING COMMAND JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT PLUMBING - RISER DIAGRAMS			
SCALE: AS NOTED			
EPROJCT NO.: 1590892			
CONSTR. CONTR. NO. N40085-20-C-0059			
NAVFAC DRAWING NO.			
SHEET	OF		
P-702			

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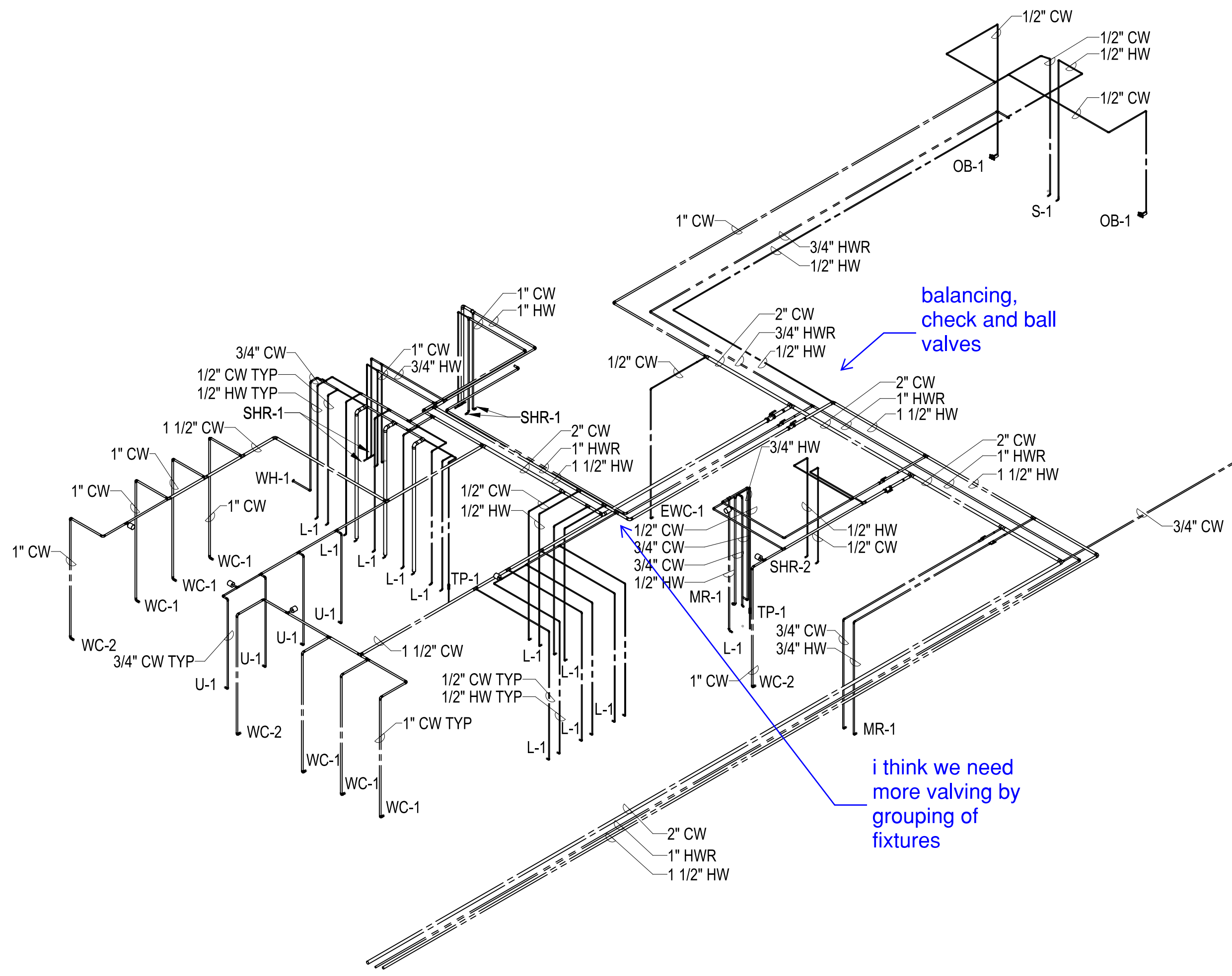
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DOMESTIC WATER RISER DIAGRAM - AREA B
 SCALE:

A1

FILE NAME: BIM_360/HF PACKAGE 3P1338.MEF SIM CTR-159082-M.rvt
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DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
MBC CAMP LEJEUNE

SYMBOL	DESCRIPTION	DATE	APPROVED
 PRELIMINARY NOT FOR CONSTRUCTION			
 Michael Baker INTERNATIONAL 100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY			
MARINE CORPS BASE CAMP LEJEUNE			
SATISFACTORY TO DATE			
DES	DRW	CHK	
PM			
BRANCH MANAGER			
CHIEF ENGINEER			
FIRE PROTECTION			
NAVAL FACILITIES ENGINEERING COMMAND JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT PLUMBING - RISER DIAGRAMS			
SCALE: AS NOTED		PROJECT NO.: 1590892	
CONSTR. CONTR. NO. N40085-20-C-0059		NAVFAC DRAWING NO.	
SHEET OF		P-703	

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

UNCLASSIFIED

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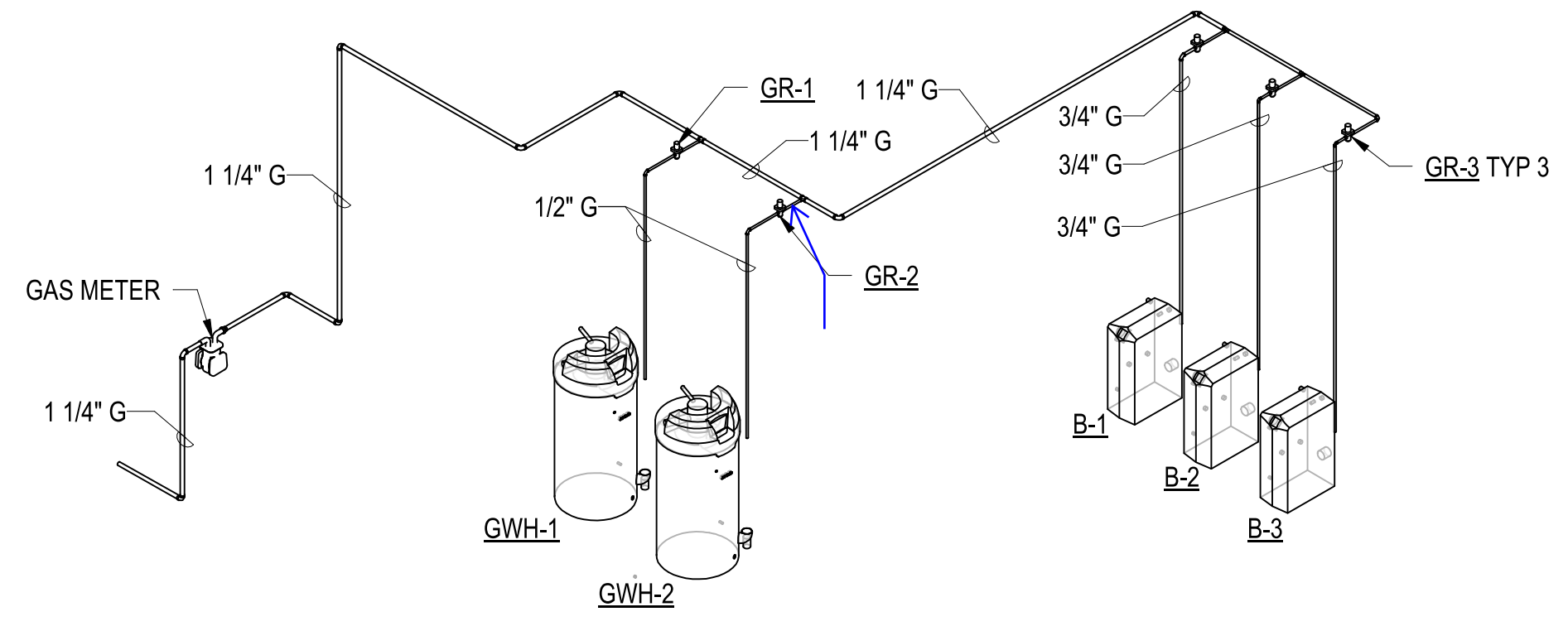
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GAS RISER DIAGRAM - AREA A

SCALE:

A1



PRELIMINARY
NOT FOR CONSTRUCTION



Michael Baker
INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE
DES: DRW: CHK:

PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
JACKSONVILLE, NC
JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
PLUMBING - RISER DIAGRAMS

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.

SHEET OF

P-704

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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