

PLUMBING LEGEND

SYMBOLS

	SOIL (S) OR WASTE (W) ABOVE FLOOR OR GRADE
	SOIL (S) OR WASTE (W) BELOW FLOOR OR GRADE
	VENT (V)
	RAINWATER (RW) ABOVE FLOOR OR GRADE
	RAINWATER (RW) BELOW FLOOR OR GRADE
	OVERFLOW RAINWATER (ORW) ABOVE FLOOR OR GRADE
	OVERFLOW RAINWATER (ORW) BELOW FLOOR OR GRADE
	COLD WATER (CW)
	HOT WATER (HW)
	HOT WATER CIRCULATING (HWC)
	TRAP PRIMER (T)

	DRAIN
	ROOF DRAIN (RD)
	FLOOR CLEANOUT (FCO)
	GROUND CLEANOUT (GCO)
	CLEANOUT (CO)
	STRAINER
	UNION OR FLANGE
	HOSE BIB
	WALL HYDRANT
	PRESSURE REDUCING VALVE
	CHECK VALVE
	GLOBE VALVE
	AUTOMATIC OR MANUAL FLOW CONTROL FITTING
	BALANCING VALVE
	GAS PRESSURE REGULATOR
	GAS VALVE
	GATE VALVE OR BUTTERFLY VALVE
	GATE VALVE IN VERTICAL RISE
	BALL VALVE
	BALL VALVE IN VERTICAL RISE
	MIXING VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	PRESSURE RELIEF VALVE
	VACUUM BREAKER
	VACUUM RELIEF VALVE
	THERMOMETER
	PRESSURE GAUGE
	WATER HAMMER ARRESTER
	TRAP PRIMER
	TRAP PRIMER WITH DISTRIBUTION UNIT
	FLOW BALANCING ASSEMBLY
	FLOW METER
	WATER METER
	BACKFLOW PREVENTER
	PUMP

ABBREVIATIONS

AAP	AREA ALARM PANEL (MEDICAL GAS)	SD	SHOWER DRAIN
ABV	ABOVE	SEC	SECURITY
AFF/AFG/ARF	ABOVE FINISHED FLOOR/GRADE/RAISED FLOOR	SHR	SHOWER
AP	ACCESS PANEL	SHT	SHEET
AR	ACID-RESISTING	SM	SHEET METAL
ARCH	ARCHITECT/ARCHITECTURAL	SPEC	SPECIFICATION
ARCO	ACID-RESISTING CLEANOUT	SS	SERVICE SINK
AS	ALLOY STEEL	SSTL	STAINLESS STEEL
ATTP (#)	AUTOMATIC TRAP PRIMER PANEL (# INDICATES THE NUMBER OF OUTLETS)	TD	TRENCH DRAIN
BEL	BELOW	TEMP	TEMPERATURE
BF	BELOW FLOOR	TP	TRAP PRIMER
CB	CATCH BASIN	TR	THROUGH ROOF
CI	CURB INLET	TS	TIGHT TO STRUCTURE
CLG	CEILING	UC	UNDERCOUNTER
COL	COLUMN	UG	UNDERGROUND
CONC	CONCRETE	UR	URINAL
CONN	CONNECT/CONNECTION	VB	VACUUM BREAKER
CONT	CONTINUATION/CONTINUOUS	VTR	VENT THROUGH ROOF
CSS	CLINICAL SERVICE SINK	WC	WATER CLOSET
CTE	CONNECT TO EXISTING	WG	WATER GAUGE
DI	DROPPED INLET	WM	WASHING MACHINE
DN	DOWN		
DS	DOWNSPOUT		
DW	DISHWASHER		
DWG	DRAWING		
ELE	ELEVATOR		
ELEC	ELECTRICAL/ELECTRIC		
EWC	ELECTRIC WATER COOLER		
EX	EXISTING		
EXP	EXPOSED		
FPWH	FREEZE PROOF WALL HYDRANT		
FD	FLOOR DRAIN		
FDN	FOUNDATION		
FS	FLOOR SINK		
FTG	FOOTING		
GR	GRADE		
HC	HANDICAPPED		
HD	HUB DRAIN		
IE	INVERT ELEVATION		
IM	ICE MACHINE/ICE MAKER		
LAV	LAVATORY		
MAP	MASTER ALARM PANEL (MEDICAL GAS)		
MECH	MECHANICAL		
MH	MANHOLE		
PDI	PLUMBING AND DRAINAGE INSTITUTE		
PL	PLANTER		
PS	PIPE STAND SUPPORT		
RD	ROOF DRAIN		
REL	RELOCATE		
REM	REMOVE		

GENERAL NOTES:

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL PLUMBING PIPING, FITTINGS, ACCESSORIES, AND EQUIPMENT, ETC. IN ACCORDANCE WITH THE FOLLOWING CONSTRUCTION DOCUMENT FLOOR PLANS.
2. THE PLUMBING CONTRACTOR SHALL COORDINATE PLUMBING TRADE WORK WITH THE GENERAL, ELECTRICAL, AND MECHANICAL CONTRACTORS PRIOR TO BEGINNING THE NEW WORK.
3. PLUMBING PIPING SHALL NOT BE ROUTED OVER ELECTRICAL OR TELECOM ROUNDS UNLESS SHOWN ON THE PLUMBING FLOOR PLANS, WHERE PIPING IS SHOWN ROUTED ABOVE ELECTRICAL AND TELECOM ROUNDS. PLUMBING CONTRACTOR SHALL PROVIDE GALVANIZED STEEL, FIELD FABRICATED, SHEET METAL DRIP PANS WITH A DRAIN ROUTED TO A NEARBY FLOOR DRAIN AS INDICATED ON THE PLUMBING FLOOR PLANS.
4. ALL RAINWATER AND WASTE/SOIL STACKS SHALL BE INSTALLED WITH BASE OF STACK CLEANOUTS AT THE LOWEST LEVEL OF THE STACK PRIOR TO THE PIPING TRANSITIONING BELOW GROUND. INSTALL CLEANOUT 1'-6" ABOVE FINISHED GRADE.
5. FIXTURES UTILIZING CLOSING VALVES SUCH AS DRINKING FOUNTAINS, FLUSH VALVES, SENSOR FAUCETS, SHOWER FAUCETS, ETC., SHALL HAVE WATER HAMMER ARRESTORS INSTALLED ON THE COLD AND HOT WATER PIPING SERVING THE FIXTURE. WATER HAMMER ARRESTORS SHALL BE ENCLOSED PISTON TYPE WHICH HAVE NO MAINTENANCE REQUIREMENT. THEREFORE AN ACCESS PANEL OR REMOVAL OF THE WATER HAMMER ARRESTORS ARE NOT SHOWN ON THE PLUMBING FLOOR PLANS FOR CLARITY. WATER HAMMER ARRESTORS SHALL NOT BE INSTALLED WITHIN CONSTRUCTION MASONRY UNIT WALLS. WHERE FIXTURES ARE INSTALLED ON CONSTRUCTION MASONRY UNIT WALLS, INSTALL THE WATER HAMMER ARRESTORS ABOVE THE CEILING PRIOR TO THE PIPING DROP WITHIN THE WALL TO SERVE THE FIXTURE. WATER HAMMER ARRESTORS SHALL BE INSTALLED IN AN UPRIGHT, VERTICAL POSITION.

Newcomb & Boyd
CONSULTANTS AND ENGINEERS
Consulting Engineering Group
5425 Page Rd
Suite 215
Durham, NC 27703
T 919 783-7812
Contact: Paul J. Kitchens
N&B PROJECT: 19N342
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THE LINE DOWN INDICATES
A POINT OF DISCONTINUITY
BETWEEN SHEETS

E

D

C

B

A

11/19/2020 6:00:21 PM

1 PLUMBING SITE PLAN 1

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6

N/F
SOUTH COLLEGE 147 INC
730-OFFICE AND DR
RB-RECI

6,000 GALLON, UL-2085, ABOVE
GROUND STORAGE TANK.

MECHANICAL YARD
M1

STAIR 4
S4

HVAC
109

ELECT
110

STAIR 3
S3

FFE: 40.1

HUB - LEVEL 1
106

EOC/911 LEVEL 1
107

HUB VESTIBULE
105

PUMP ROOM
112

CORRIDOR
111

STAIR 2
S2

MAIN
ELECT.
104

COMM
103

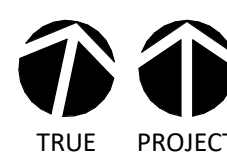
ELEVATORS
105

OFFICE LEVEL 1
101

OFFICE VESTIBULE
102

STAIR 1
S1

0 8' 16' 24'



1/16" = 1'-0"

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CONSULTANTS AND ENGINEERS
Consulting Engineering Group
5425 Page Rd
Suite 215
Durham, NC 27703
T 919 783-7812
Contact: Paul J. Kitchens
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SHEET NAME:
PLUMBING SITE PLAN

DATE:
CURRENT: 2020.11.20
TI GMP SET

SHEET:
P-002

TI GMP SET

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GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

NHC Government Center 7702-190810

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TEL. 910.790.3111 FAX. 910.790.9901
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CAPE FEAR FD STONEWATER



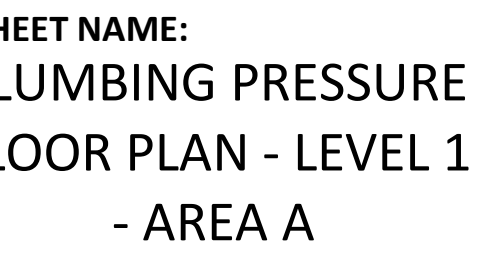
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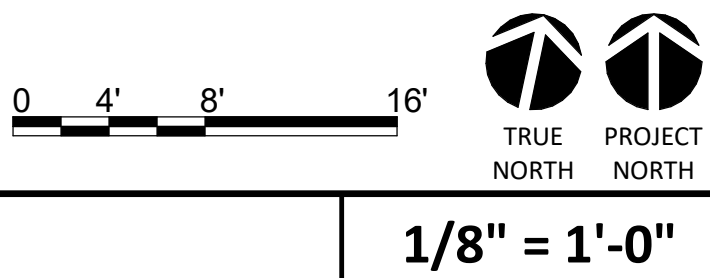
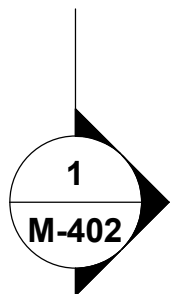
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KEY PLAN:



DATE: 2020.11.20
CURRENT: TI GMP SET

MEET: **P-101A**

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Durham, NC 27703
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1 P-101A	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A	1/8" = 1'-0"
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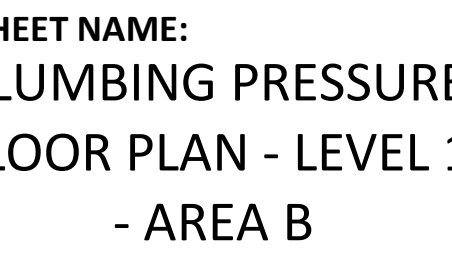
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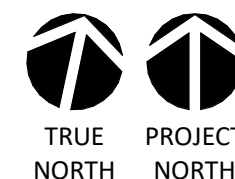
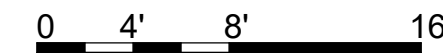
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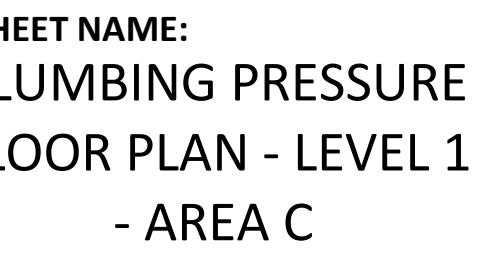
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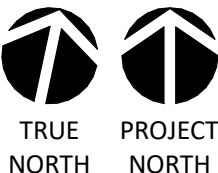
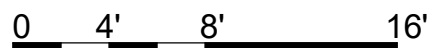
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KEY PLAN:



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MEET: P-101C

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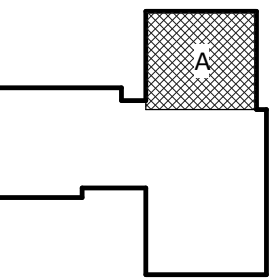
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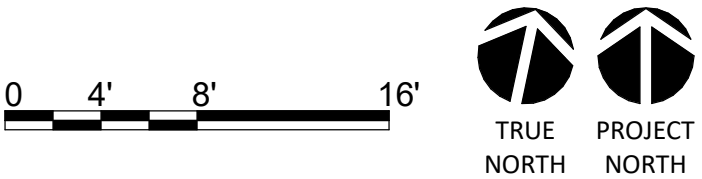
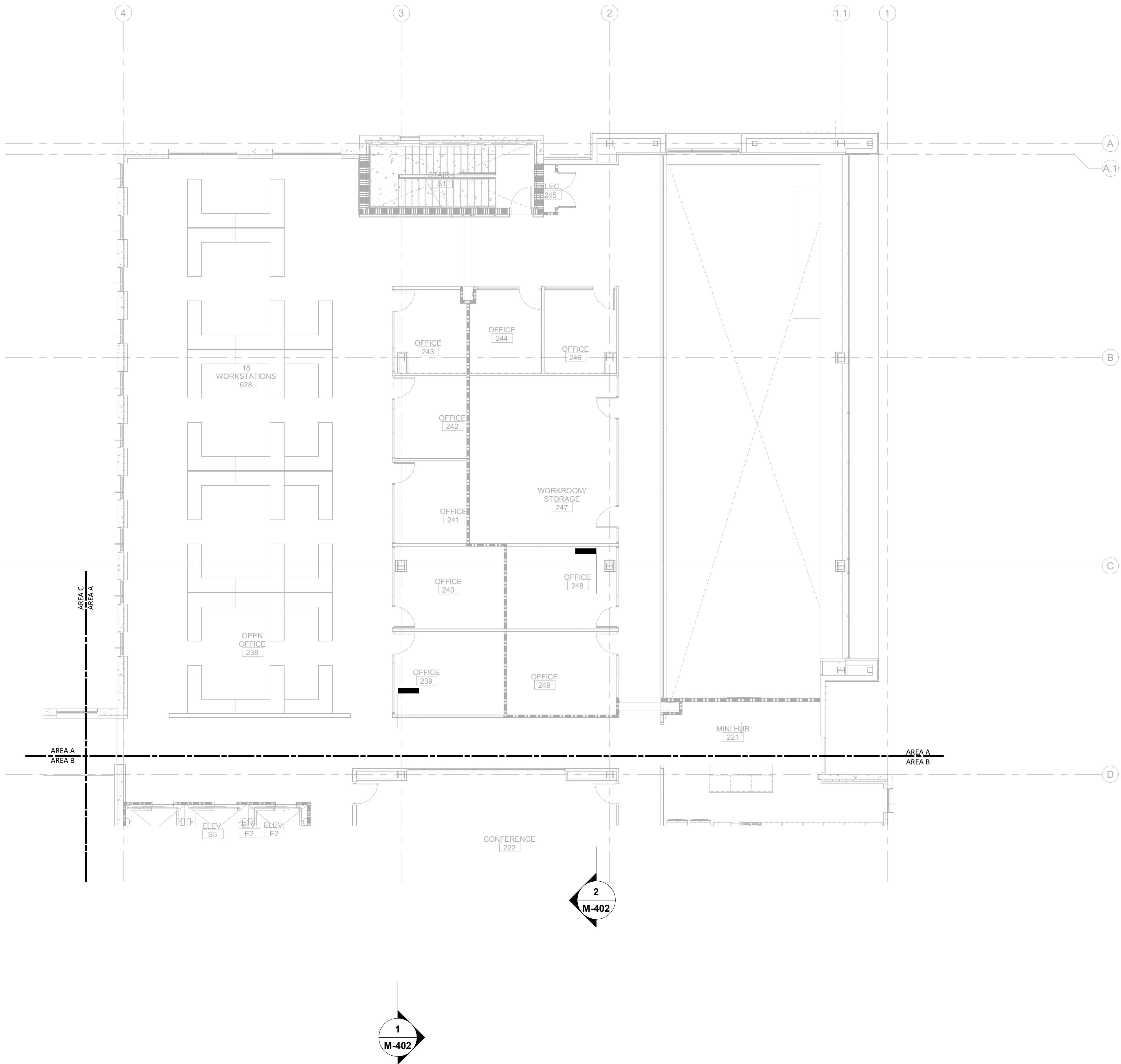
SHEET NAME:
PLUMBING PRESSURE
FLOOR PLAN - LEVEL 2
- AREA A

DATE: 2020.11.20
CURRENT: TI GMP SET

P-102A

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1 P-102A	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA A	1/8" = 1'-0"
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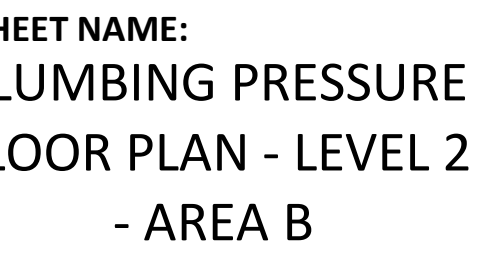
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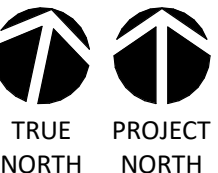
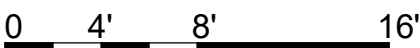


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MEET: **P-102B**

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$$1/8'' = 1'-0''$$

1	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 2 - AREA B
P-102B	

1/8" = 1'-0"



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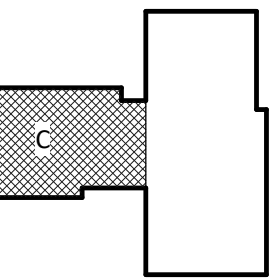
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KEY PLAN:



SHEET NAME:
PLUMBING PRESSURE
FLOOR PLAN - LEVEL 2
- AREA C

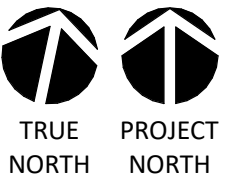
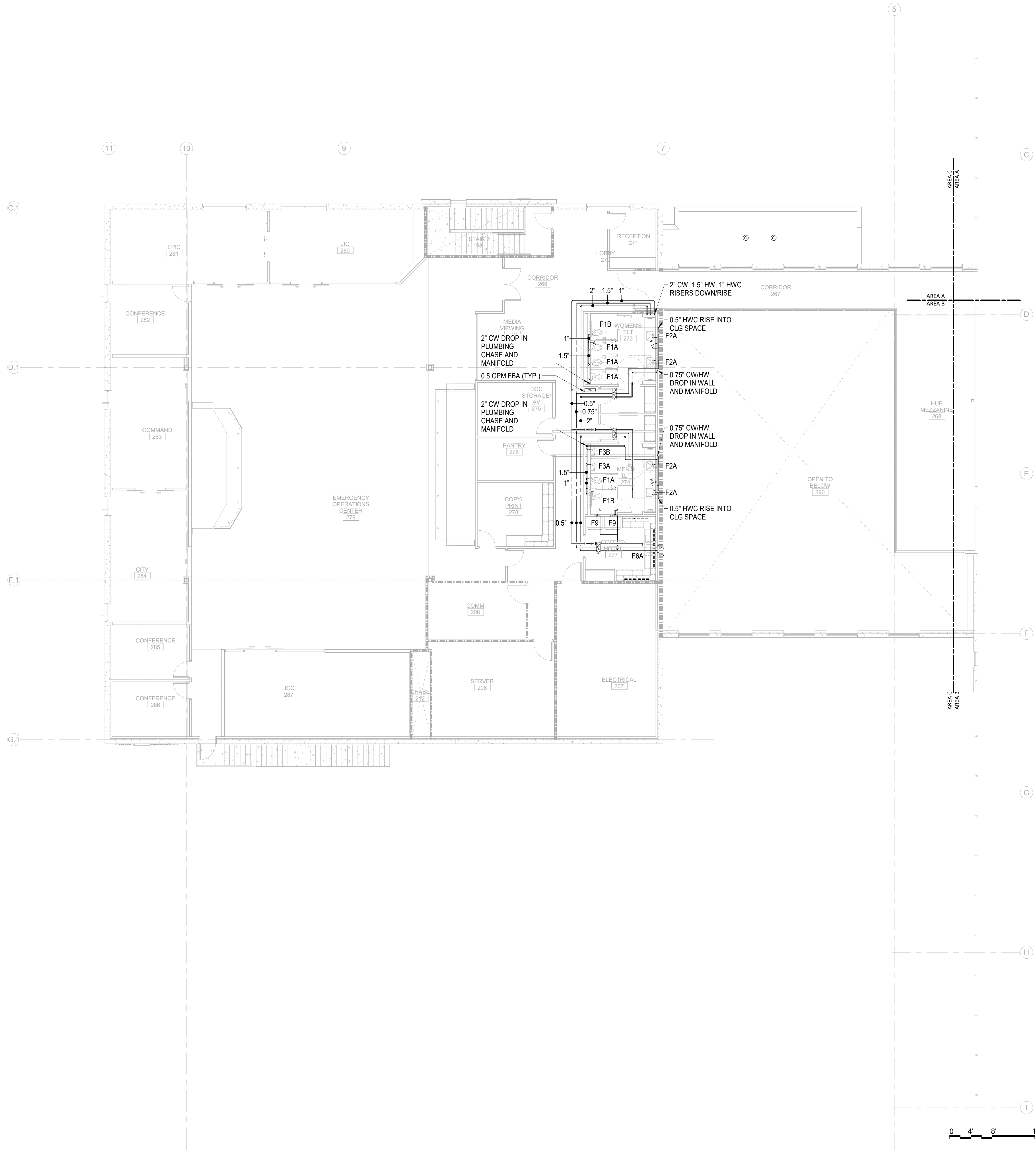
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P-102C

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1/8" = 1'-0"



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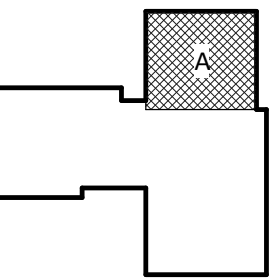
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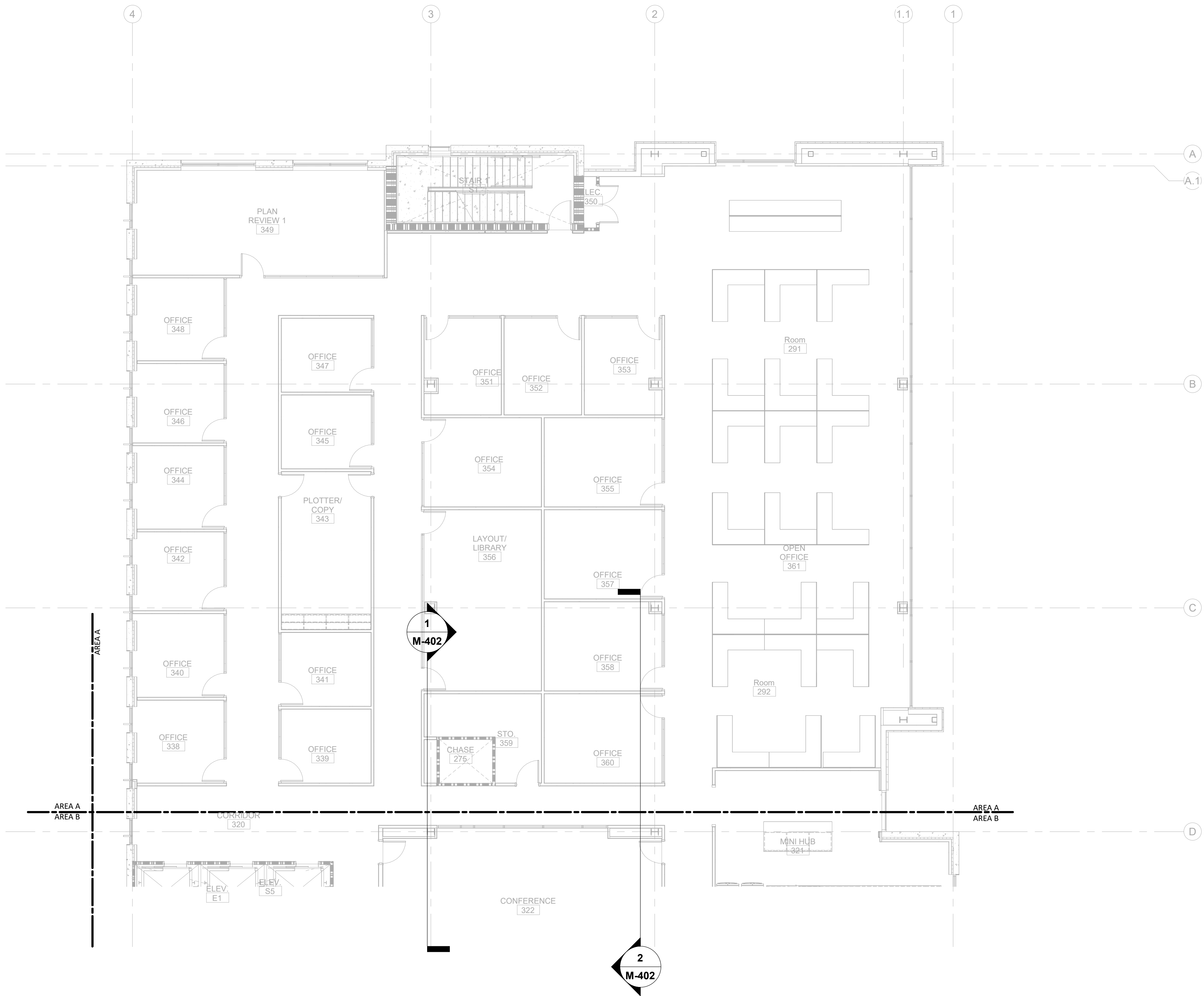
SHEET NAME:
PLUMBING PRESSURE
FLOOR PLAN - LEVEL 3
- AREA A

DATE: 2020.11.20
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1 P-103A	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA A	1/8" = 1'-0"
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EXACTLY ONE INCH LONG AT
THIS SHEETS ORIGINAL PAGE SIZE

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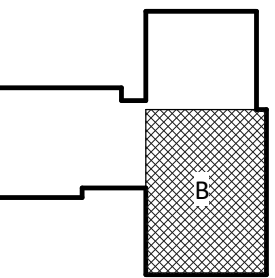
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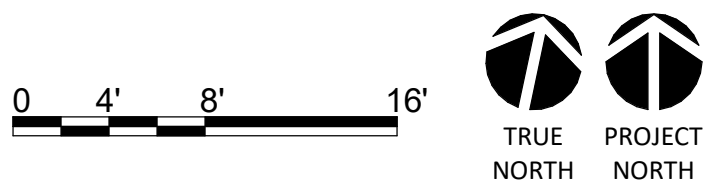
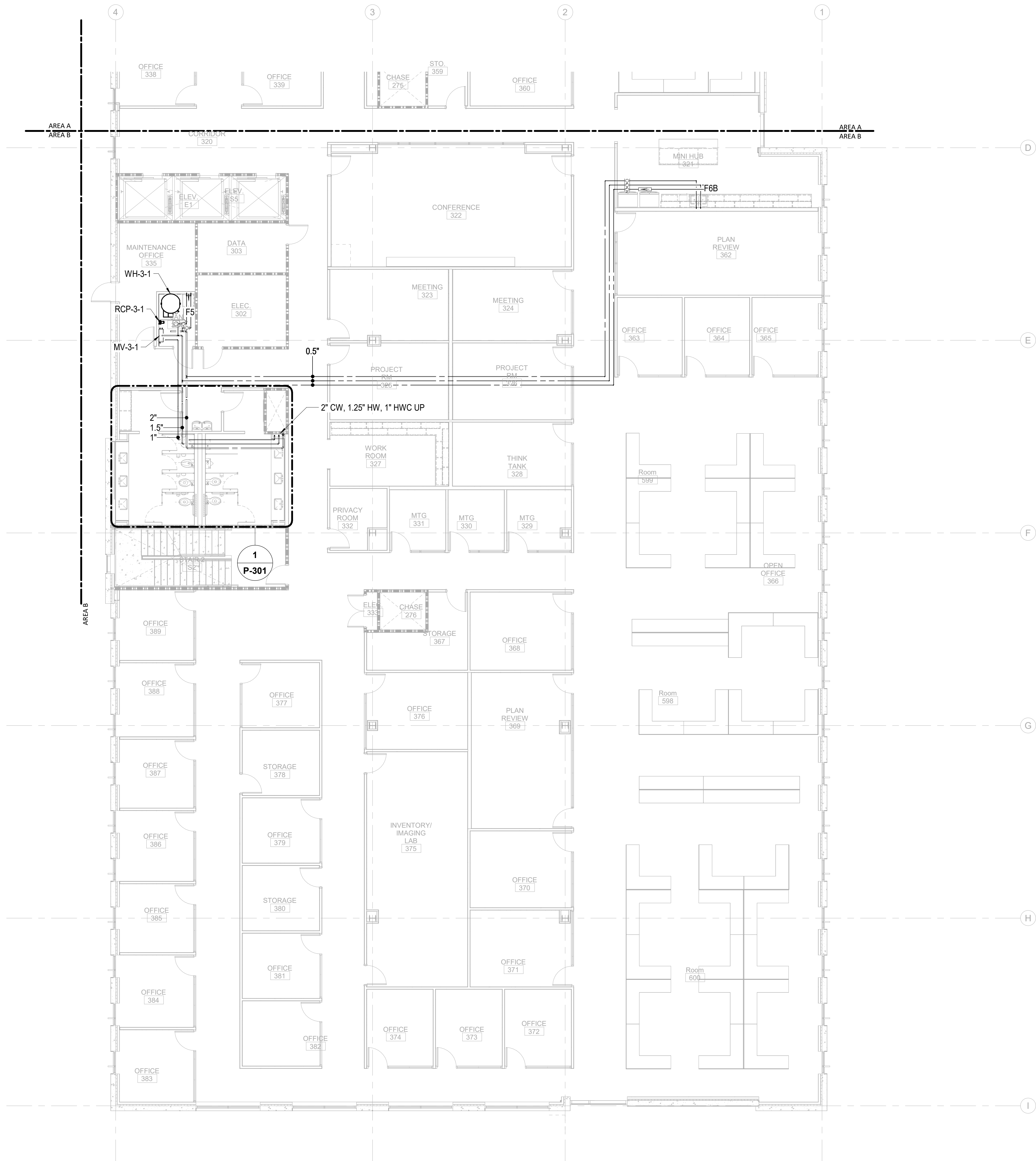
SHEET NAME:
PLUMBING PRESSURE
FLOOR PLAN - LEVEL 3
- AREA B

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1	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 3 - AREA B
P-103B	

$$1/8'' = 1'-0''$$

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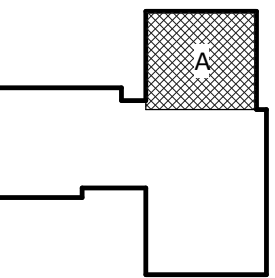
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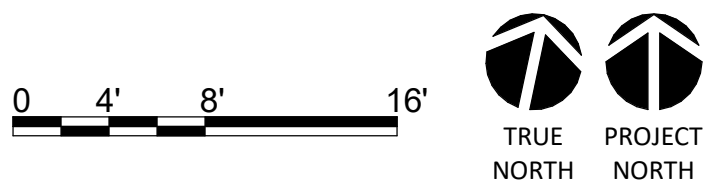
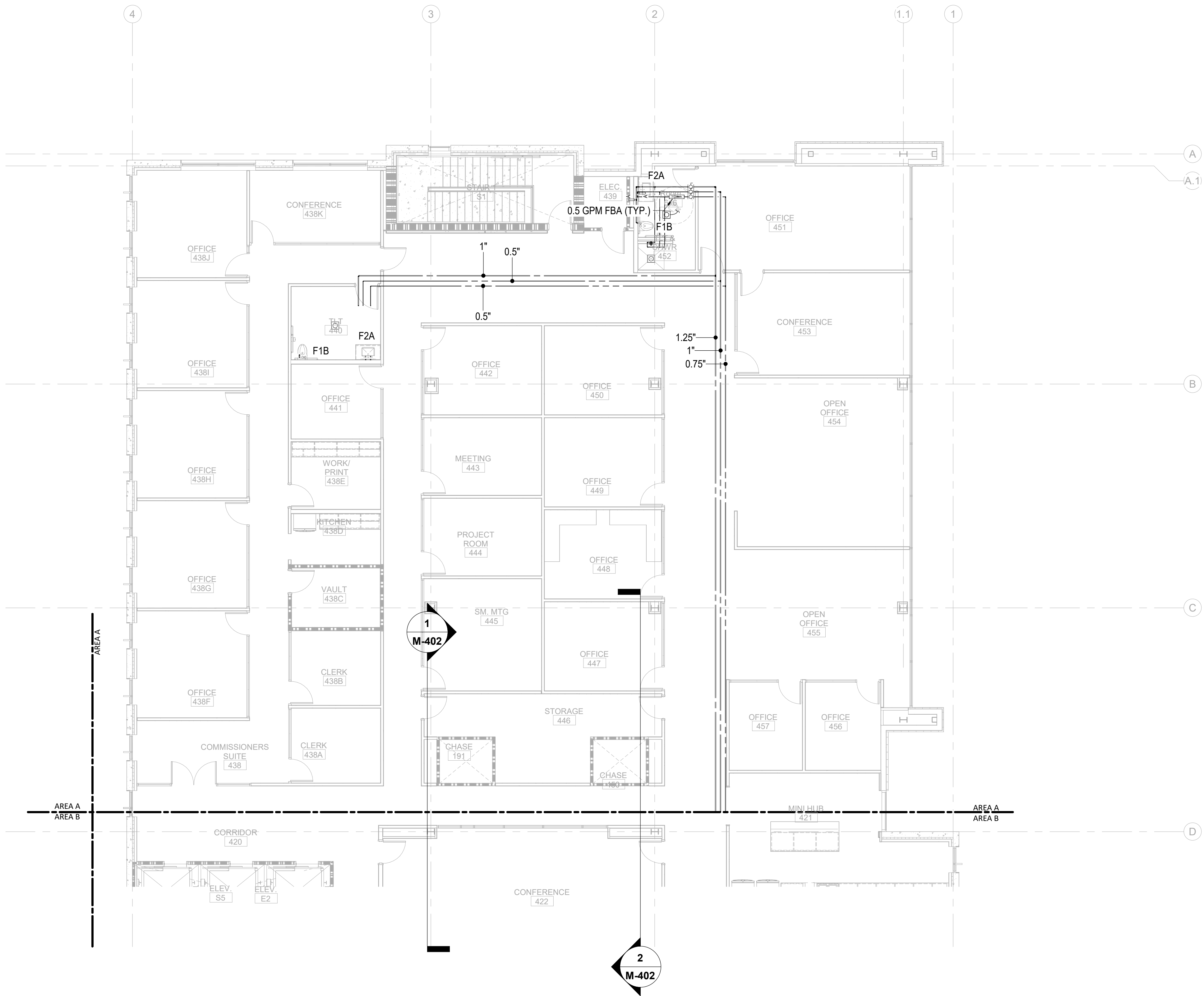
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LUMBERING PRESSURE
FLOOR PLAN - LEVEL 4
- AREA A

DATE: 2020.11.20
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HEET: **P-104A**

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1 P-104A	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA A	1/8" = 1'-0"
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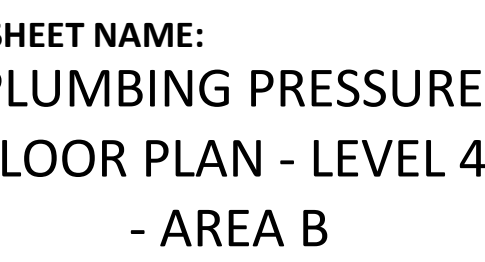
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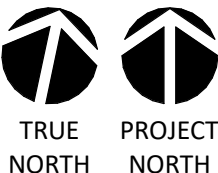
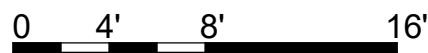
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$1/8'' = 1'-0''$

—

D

“

3

A

1	PLUMBING PRESSURE TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B
P-104B	

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4

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6

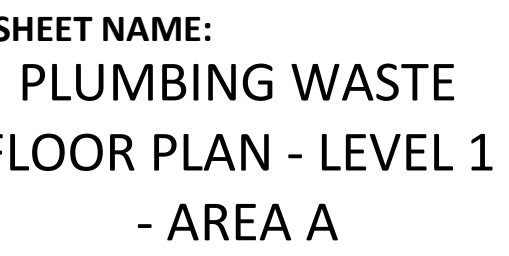


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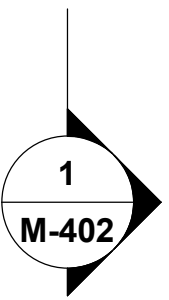
KEY PLAN:



DATE: 2020.11.20
CURRENT: TI GMP SET

TI GMP SET

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Contact: Paul J. Kitchens
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11/19/2018	1	PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA A
	P-201A	



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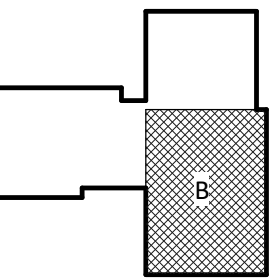
NEW HANOVER COUNTY GOVERNMENT CENTER

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[illegible]

KEY PLAN:



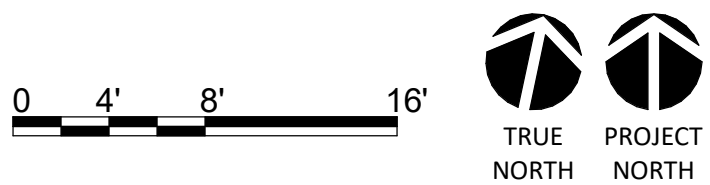
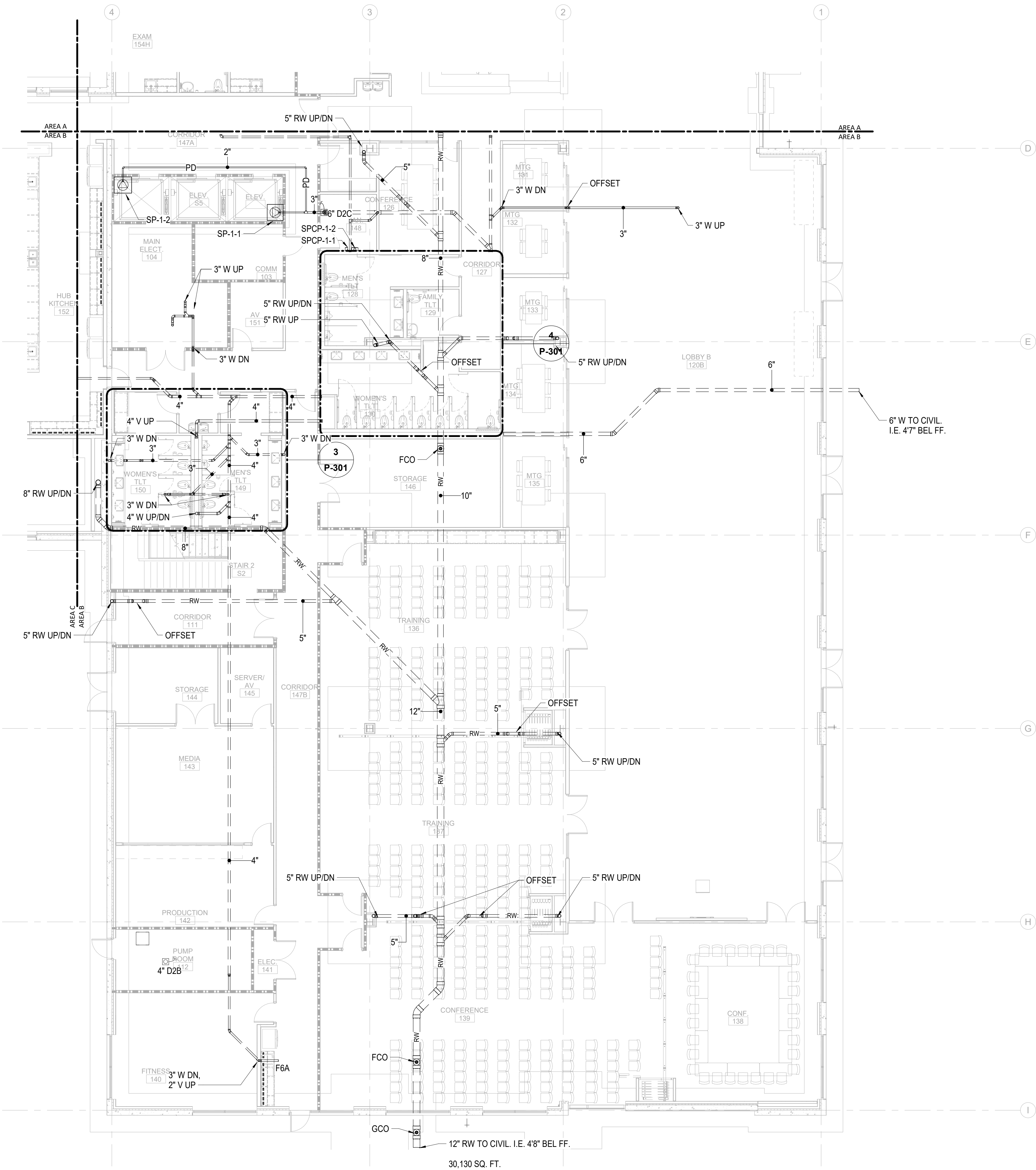
SHEET NAME:
PLUMBING WASTE
FLOOR PLAN - LEVEL 1
- AREA B

DATE: 2020.11.20
CURRENT: TI GMP SET

HEET: **P-201B**

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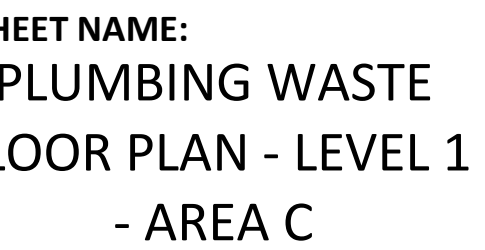
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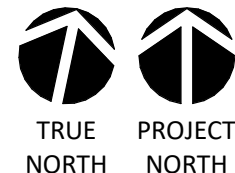
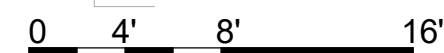
KEY PLAN:



DATE: 2020.11.20
CURRENT: TI GMP SET

SHEET:

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—

D

2

3

A

11/19/2017	1	PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 1 - AREA C
	P-201C	

1/8" = 1'-0"



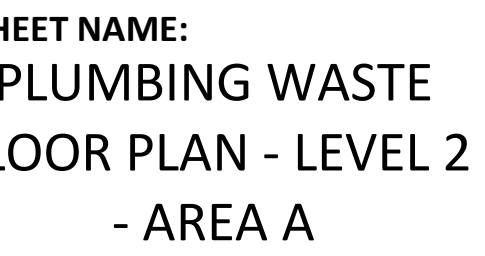
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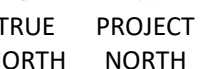
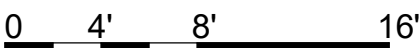
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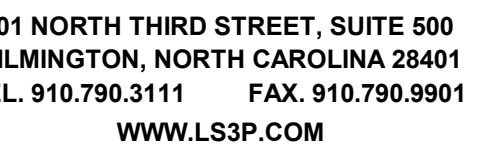
MEET:

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1/8" = 1'-0"

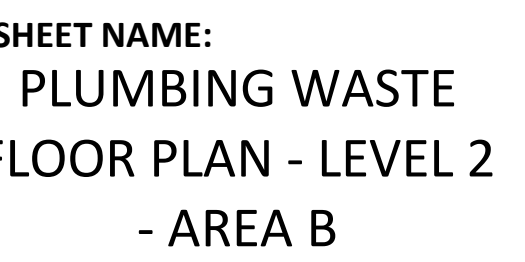


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KEY PLAN:



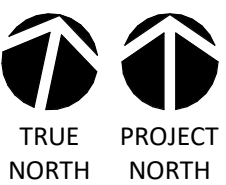
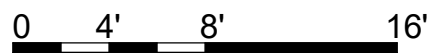
DATE: 2020.11.20
CURRENT: TI GMP SET

SHEET:

P-202B

I GMP SET

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$1/8'' = 1'-0''$



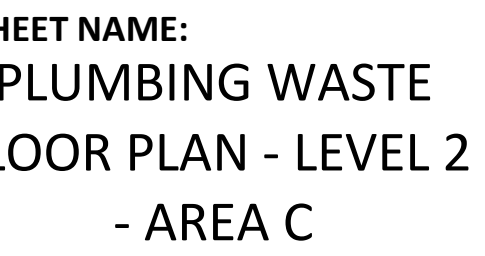
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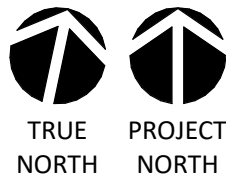
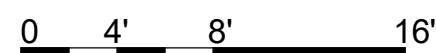
KEY PLAN:



DATE: 2020.11.20
CURRENT: TI GMP SET

HEET: P-202C

TI GMP SET



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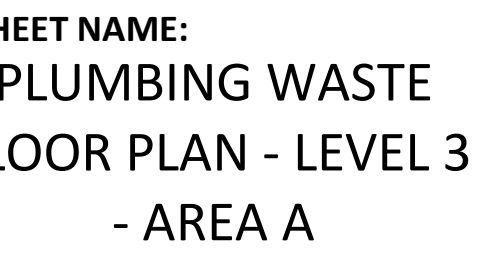
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LS3P PROJECT: 7702-190810

KEY PLAN:

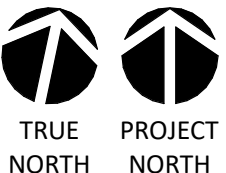
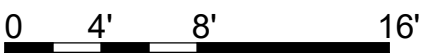


DATE: 2020.11.20
CURRENT: TI GMP SET

HEET: **P-203A**

GMP SET

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1/8" = 1'-0"



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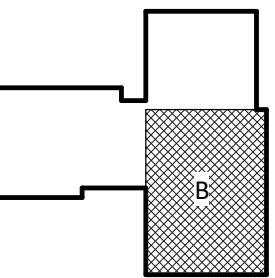
**NEW HANOVER COUNTY
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GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

[illegible]

KEY PLAN:



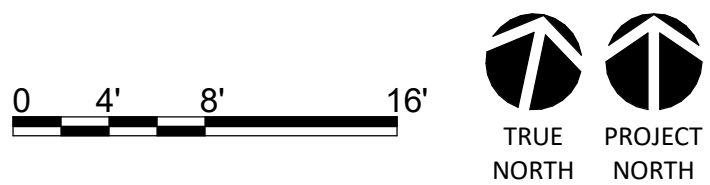
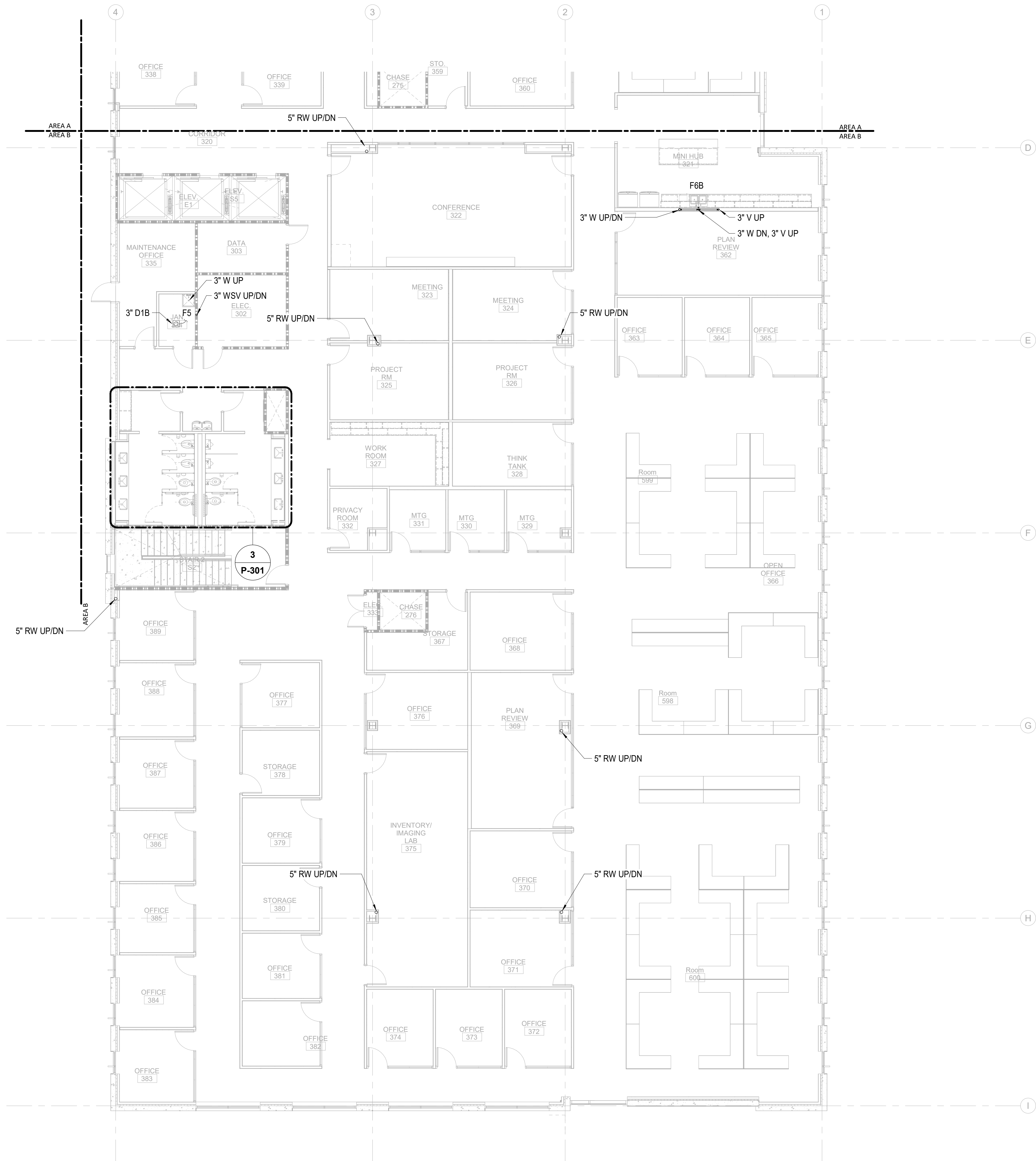
SHEET NAME:
PLUMBING WASTE
FLOOR PLAN - LEVEL 3
- AREA B

DATE: 2020.11.20
CURRENT: TI GMP SET

P-203B

I GMP SET

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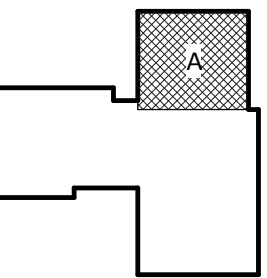
NEW HANOVER COUNTY
GOVERNMENT CENTER
GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

[illegible]

KEY PLAN:

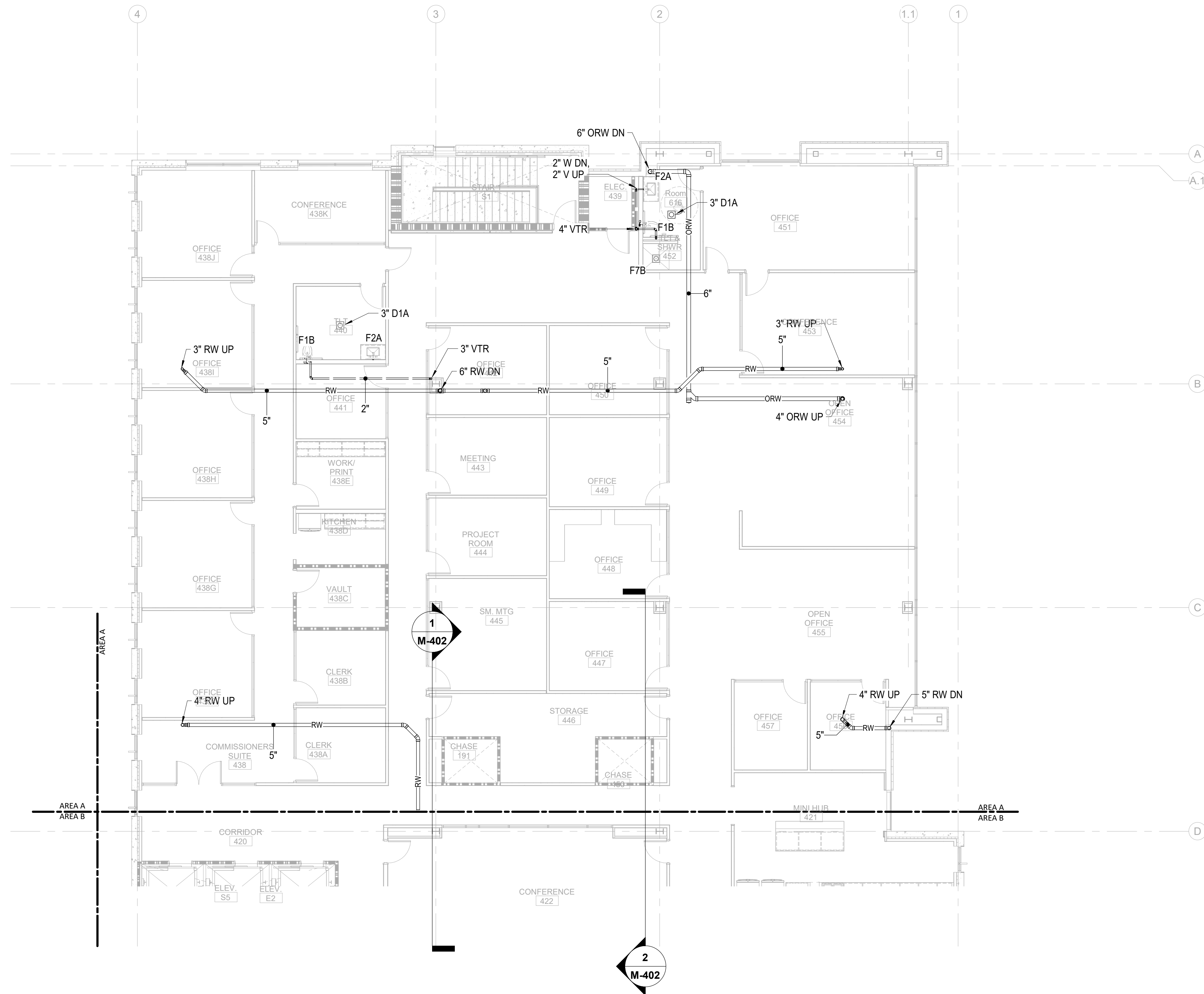


SHEET NAME:
PLUMBING WASTE
FLOOR PLAN - LEVEL 4
- AREA A

DATE: 2020.11.20
CURRENT: TI GMP SET

HEET: **P-204A**

I GMP SET



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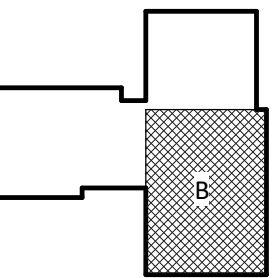
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GOVERNMENT CENTER**

WILMINGTON, NC 28403

LS3P PROJECT: 7702-190810

[illegible]

KEY PLAN:



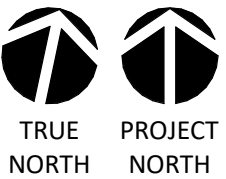
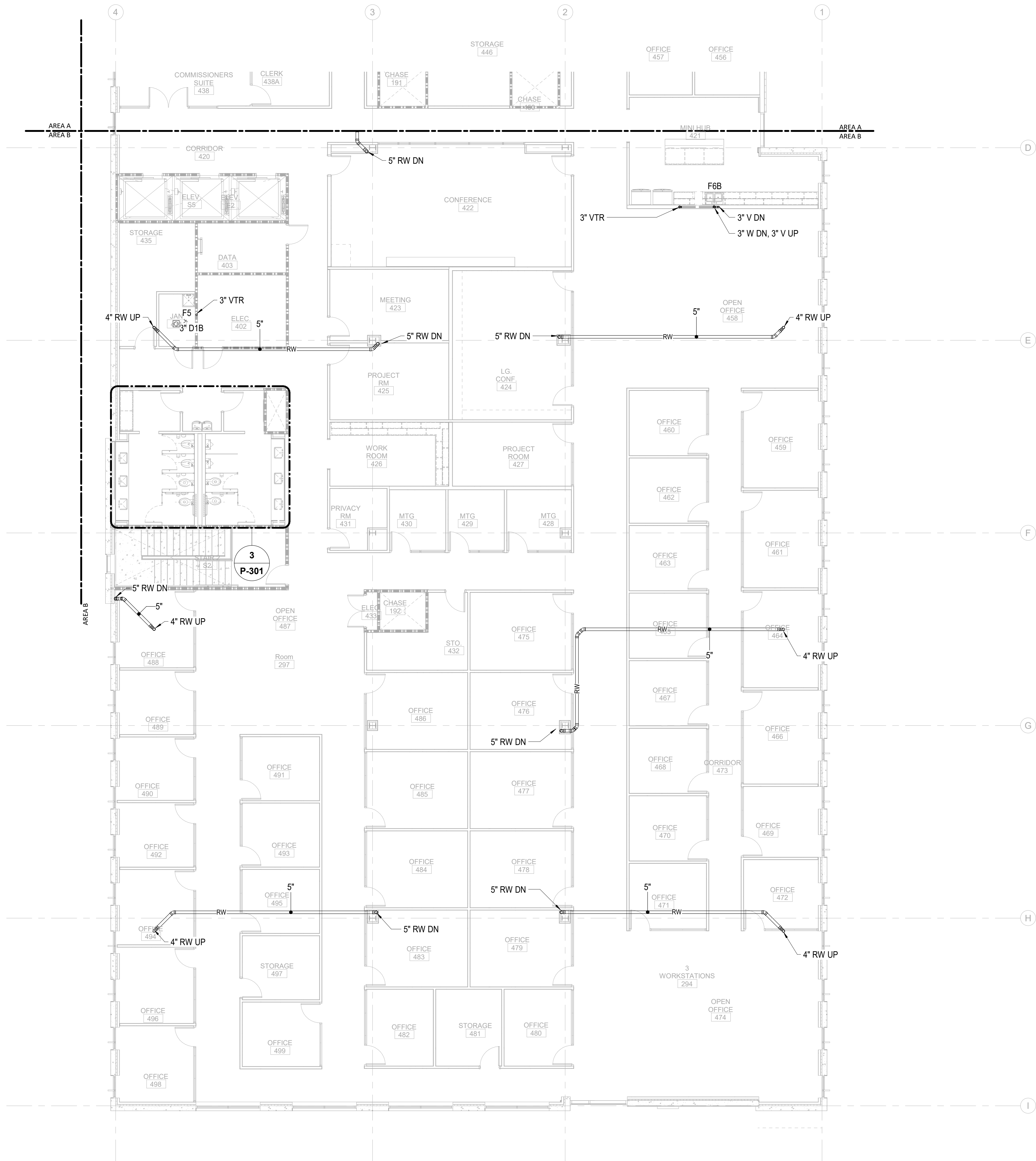
SHEET NAME:
PLUMBING WASTE
FLOOR PLAN - LEVEL 4
- AREA B

DATE: 2020.11.20
CURRENT: TI GMP SET

SHEET:

P-204B

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—

D

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11/19/20	1	PLUMBING WASTE TI FLOOR PLAN - PARTIAL - LEVEL 4 - AREA B
	P-204B	

$$\underline{1/8'' = 1'-0''}$$



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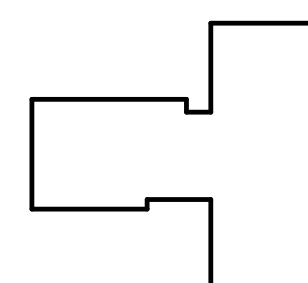
**NEW HANOVER COUNTY
GOVERNMENT CENTER**

GOVERNMENT CENTER DRIVE
WILMINGTON, NC 28403

CSO PROJECT: 7702-190810

[illegible]

KEY PLAN:

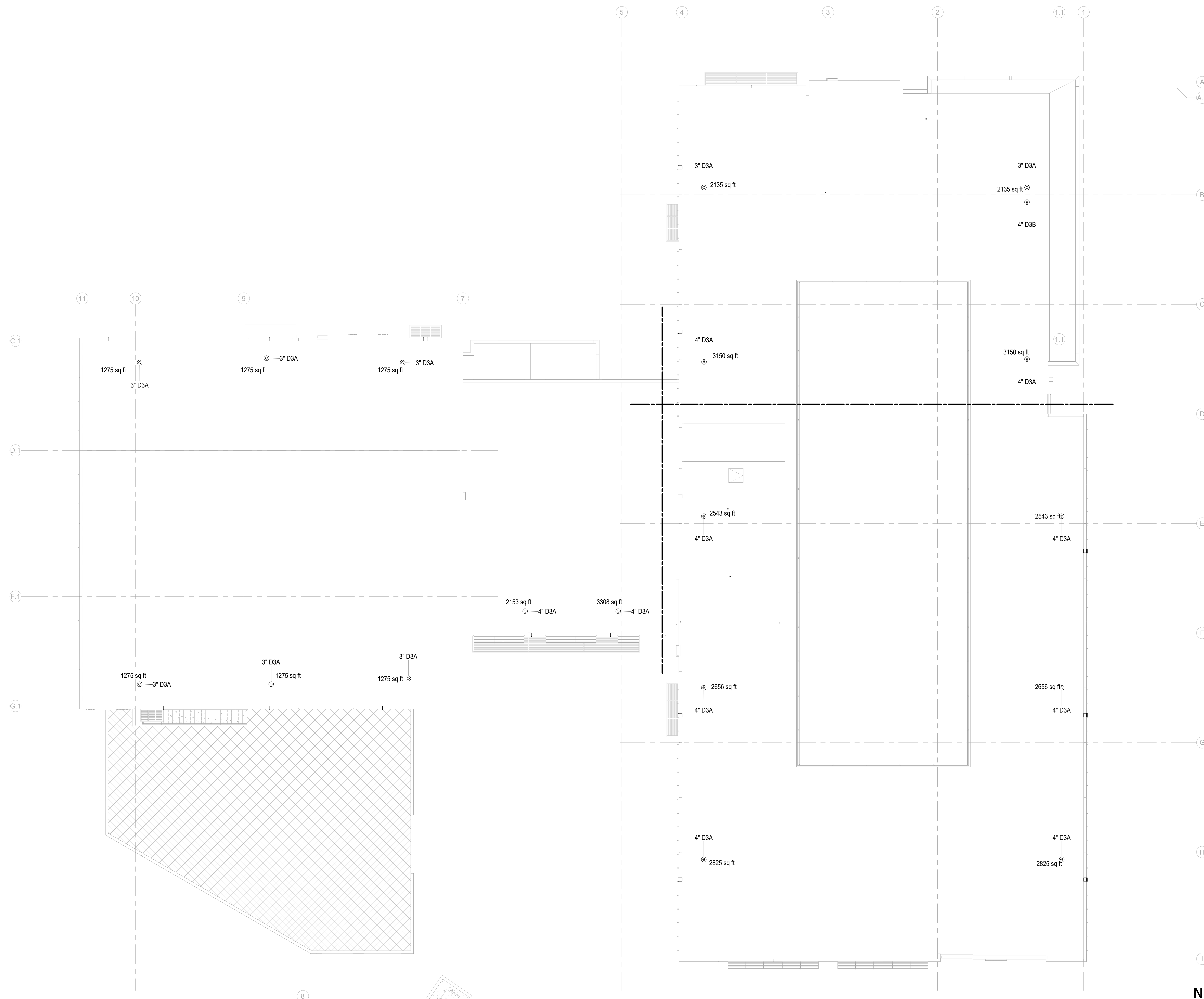


SHEET NAME:
PLUMBING WASTE
ROOF PLAN - OVERALL

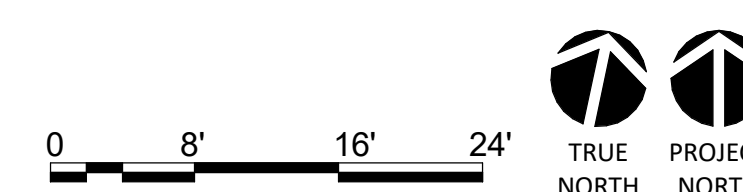
DATE: 2020.11.20
CURRENT: TI GMP SET

SHEET: **P-205**

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[illegible]

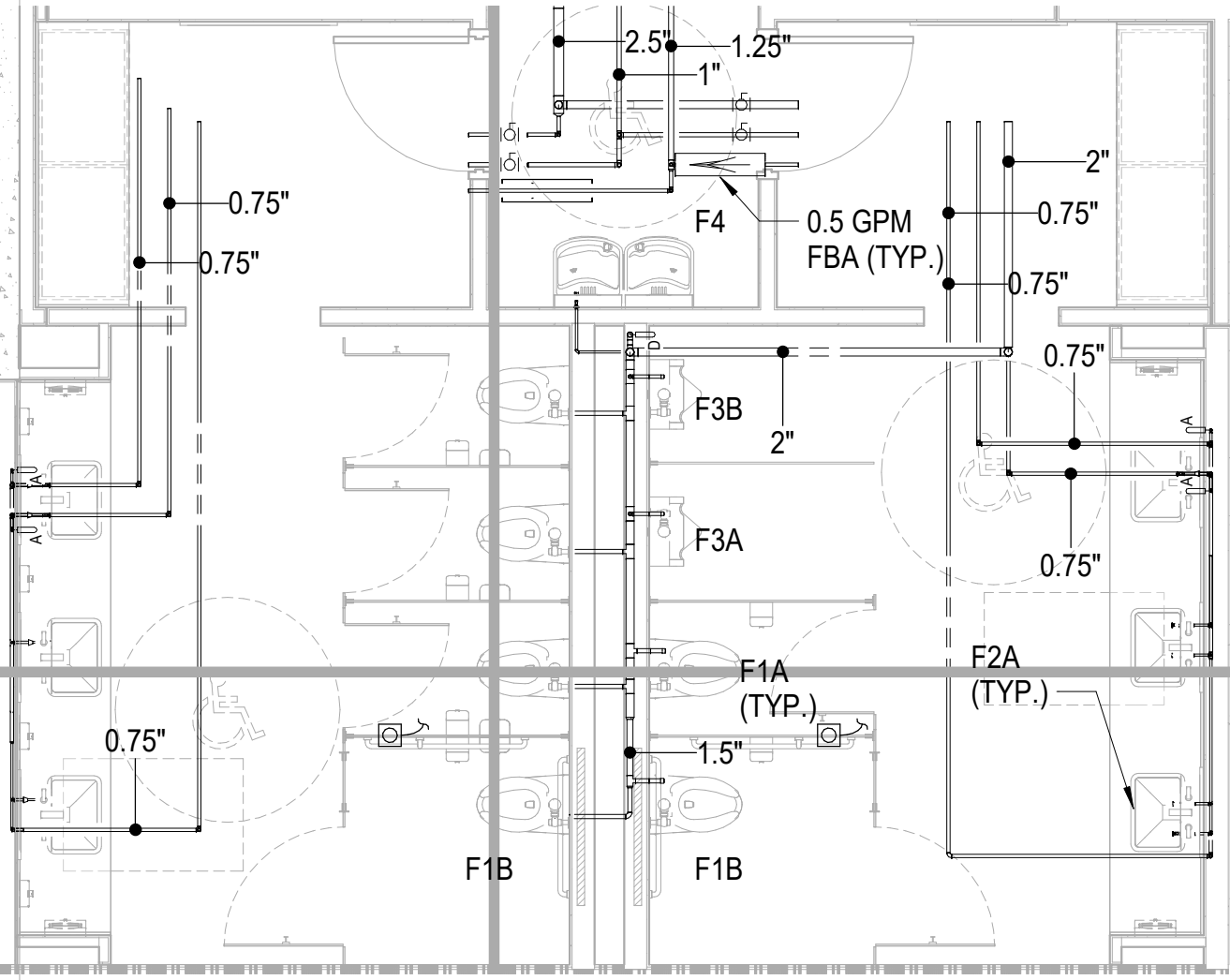
SHEET NAME:
PLUMBING - PART
PLANS

DATE: 2020.11.20

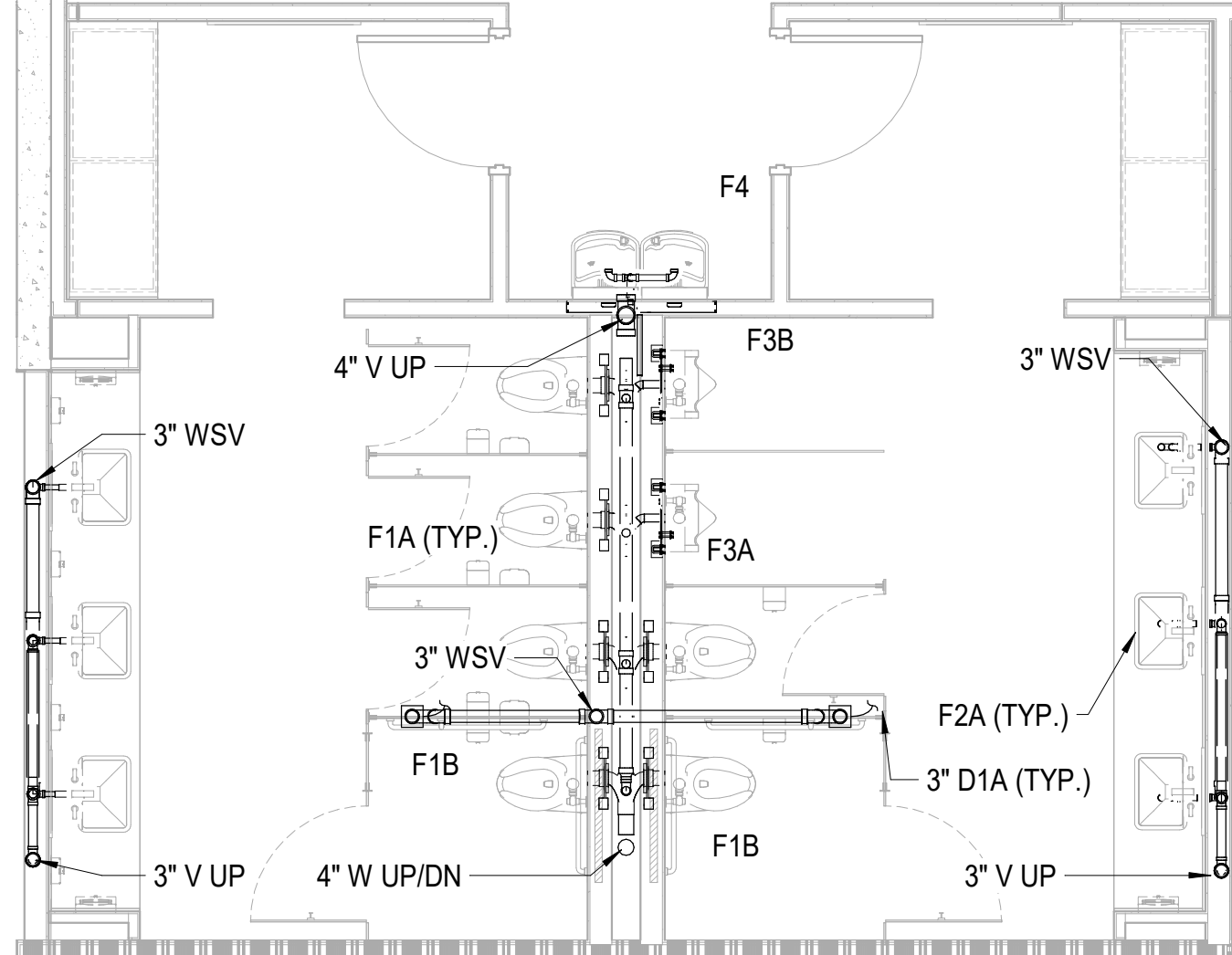
MEET:

P-301

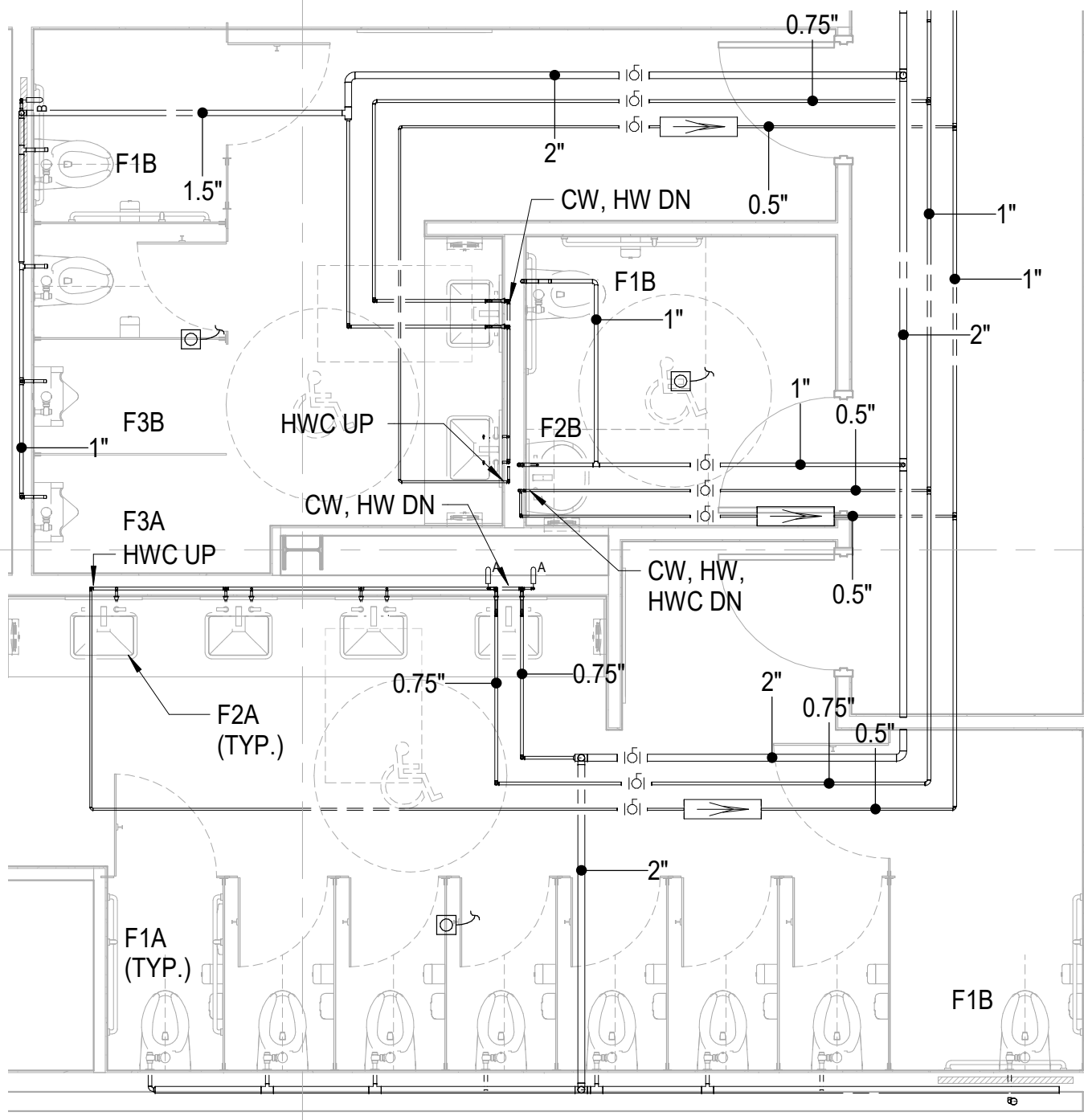
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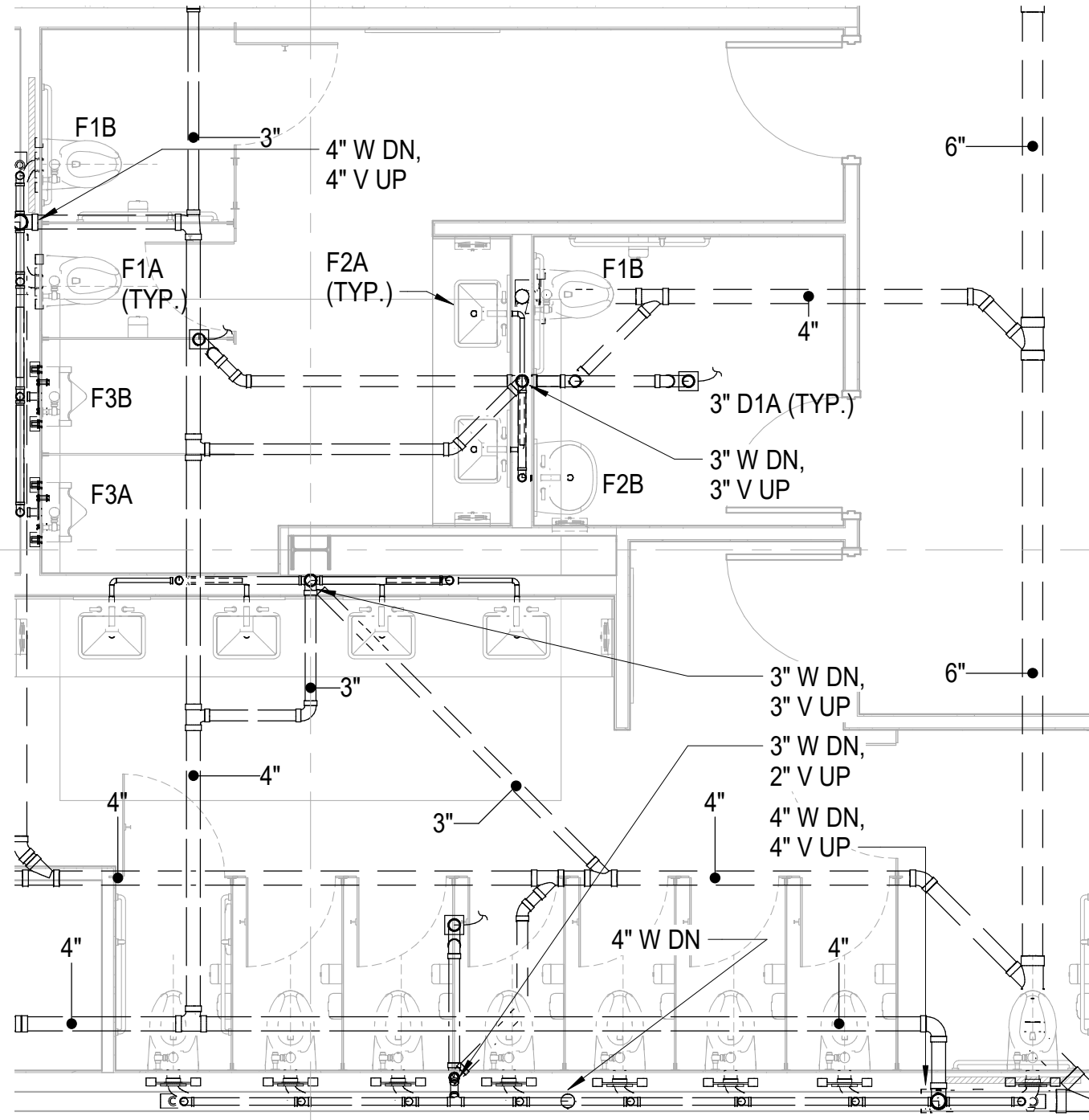
1 ENLARGED CORE RESTROOMS - PRESSURE
P-301 1/4" = 1'-0"



3 ENLARGED CORE RESTROOMS - WASTE
P-301 1/4" = 1'-0"



2 ENLARGED LEVEL 1 GROUP RESTROOMS - PRESSURE
P-301 1/4" = 1'-0"



4 ENLARGED LEVEL 1 GROUP RESTROOMS - WASTE
P-301 1/4" = 1'-0"

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PLUMBING FIXTURE SCHEDULE					
NO.	FIXTURE TYPE	PIPING CONNECTION SIZE			
		HW	CW	S OR W	TW
F1A	WATER CLOSET WALL TYPE, (FLUSH VALVE)	-	1"	4"	-
F1B	WATER CLOSET WALL TYPE, (FLUSH VALVE), ADA USABLE	-	1"	4"	-
F2A	LAVATORY COUNTER MOUNTED, ADA USABLE	0.5"	0.5"	1.25"	-
F2B	LAVATORY WALL MOUNTED, ADA USABLE	0.5"	0.5"	1.25"	-
F2C	LAVATORY COUNTER MOUNTED, STAINLESS STEEL, ADA USABLE	0.5"	0.5"	1.25"	-
F3	URINAL WALL TYPE, ADA USABLE	-	0.75"	2"	-
F4	WATER FOUNTAIN, B-I-LEVEL, BOTTLE FILLER, ADA USABLE	-	0.5"	1.25"	-
F5	SERVICE SINK FLOOR TYPE	0.5"	0.5"	3"	-
F6A	SINGLE BOWL, SS SINK, COUNTER MOUNTED, ADA USABLE	0.5"	0.5"	1.5"	-
F6B	DOUBLE BOWL, SS SINK, COUNTER MOUNTED, ADA USABLE	0.5"	0.5"	1.5"	-
F7A	SHOWER, 1.5 GPM SHOWERHEAD	0.5"	0.5"	2"	-
F7B	SHOWER, 1.5 GPM SHOWERHEAD, ADA USABLE	0.5"	0.5"	2"	-
F8	WASHING MACHINE CONNECTION BOX	0.75"	0.75"	2"	-
F9	REFRIGERATOR ICE MAKER CONNECTION BOX	-	0.5"	-	-

WATER HEATER SCHEDULE							
NO.	SERVICE	TYPE (NOTE 1)	ENERGY SOURCE		STORAGE CAPACITY, GAL	RECOVERY CAPACITY, GPH (NOTE 3)	NOTES
			SOURCE (NOTE 2)	DEMAND			
WH-1-1	DOMESTIC	S	E	SEE ELECTRICAL	120	123	3,4,5
WH-1-2	DOMESTIC	S	E	SEE ELECTRICAL	250	220	3,4,5
WH-3-1	DOMESTIC	S	E	SEE ELECTRICAL	80	74	3,4,5

NOTES: (WH-WATER HEATER)

1. TYPE:
S STORAGE
2. SOURCE:
E ELECTRIC
3. BASED ON 100°F DIFFERENTIAL BETWEEN INLET AND OUTLET WATER TEMPERATURES.
4. REFER TO THE ELECTRICAL DRAWINGS FOR EQUIPMENT CONTROL POWER CIRCUITS.
5. WATER DISCHARGE SET POINT SHALL BE 140°F.

HOT WATER CIRCULATING PUMP SCHEDULE							
NO.	SERVICE	GPM	TOTAL DYNAMIC HEAD, FT. WG	MINIMUM MOTOR HP	VIBRATION ISOLATION		NOTES
					TYPE	MIN. STATIC DEFLECTION, IN.	
RCP-1-1	DOMESTIC	7.5	20	1/3	IL	0.25	2
RCP-1-2	DOMESTIC	3.0	15	1/3	IL	0.25	2
RCP-3-1	DOMESTIC	4.0	10	1/8	IL	0.25	2

NOTES:

1. REFER TO THE ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.
2. PROVIDE FLEXIBLE METAL HOSE. BRONZE INNER CORRUGATE HOSE AND OUTER WOVEN BRAID SHEATH. CONNECTORS SHALL MEET FDA AND NSF LEAD FREE REQUIREMENTS. PRESSURE RATED FOR 150 PSI (MIN.)

WATER PRESSURE BOOSTER SYSTEM SCHEDULE										
NO.	GPM		SUCTION PRESSURE, PSI (NOTE 3)	TOTAL DYNAMIC HEAD, FT. WG	MINIMUM MOTOR HP		VIBRATION ISOLATION			NOTES
	PUMP 1	PUMP 2					TYPE	MIN. STATIC DEFLECTION, IN.	INERTIA BASE	
WPB-1-1	119	119	33	85	3	3	NA	NA	NO	2, 4

NOTES:

1. NOMINAL MOTOR RPM SHALL BE 3500.
2. REFER TO ELECTRICAL DRAWINGS FOR EQUIPMENT ELECTRICAL CHARACTERISTICS.
3. SUPPLY SIDE LOSSES HAVE BEEN ACCOUNTED FOR IN SUCTION PRESSURE.
4. PUMP SHALL BE SUPPLIED WITH VIBRATION ISOLATION PADS BY THE MANUFACTURER.
5. SET DISCHARGE PRESSURE OF WPB-1-1 AT 70 PSI.

[illegible]

NOTES:

1. SERVICE:
SU SUMP
2. TYPE:
S SIMPLEX I INTERIOR
3. REFER TO ELECTRICAL DRAWING FOR EQUIPMENT ELECTRICAL CHARACTERISTICS

DRAIN SCHEDULE			
NO.	TYPE (NOTE 1)	GENERAL LOCATION	NOTES
D1A	F	FINISHED AREA	
D1B	F	JANITOR	
D2A	F	MECHANICAL ROOM	
D2B	FS	MECHANICAL ROOM	
D2C	FS	SP DISCHARGE	
D3A	R	ROOF	
D3B	R	ROOF	

NOTES: (D-DRAIN)

1. TYPE:
- | | |
|----|---------------|
| F | FLOOR DRAIN |
| FS | FLOOR SINK |
| R | ROOF DRAIN |
| P | PARKING DRAIN |
| T | TRENCH DRAIN |

MASTER MIXING VALVE SCHEDULE							
NO.	TYPE (NOTE 1)	SERVICE	FLOW GPM	HOT WATER INLET °F	TEMP WATER OUTLET °F	MAXIMUM PRESSURE DROP, PSIG	MINIMUM CIRCULATING FLOW RATE, GPM
MV-1-1	D	DOMESTIC	28	140	120	10	0.5
MV-1-2	D	DOMESTIC	30	140	120	10	0.5
MV-3-1	D	DOMESTIC	22	140	120	10	0.5

NOTES: (MV-MIXING VALVE)

1. TYPE
- D DIGITAL MIXING VALVE ASSEMBLY

