SYMBOLS

SYMBOL	DESCRIPTION
—S—	SANITARY PIPING BELOW GRADE
—S—	SANITARY PIPING ABOVE GRADE
—V—	VENT PIPING
—ST—	STORM DRAINAGE PIPING
—ST—	STORM DRAINAGE PIPING BELOW GRADE
—SST—	SIPHONIC STORM DRAINAGE PIPING
—SST—	SIPHONIC STORM DRAINAGE PIPING BELOW GRADE
—CW—	COLD WATER PIPING
—SCW—	SOFTENED COLD WATER
—HW—	HOT WATER PIPING
—HWR—	HOT WATER RETURN PIPING
—G—	GAS PIPING
	SHUT-OFF VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	BALANCING VALVE ASSEMBLY
	COCK VALVE
	VALVE IN VERTICAL
	CURB VALVE
	MIXING VALVE
C	PIPE DROP, RISE OR DOWN
	PIPE CONNECTION, TOP
	PIPE CONNECTION, BOTTOM
	PIPE UP
	"P" TRAP
	CLEANOUT
	CLEANOUT DECK PLATE
	CAPPED OUTLET
	DIELECTRIC UNION
	VENT THROUGH ROOF
	FLOOR DRAIN, AREA DRAIN
	FLOOR SINK
	ROOF DRAIN, OVERFLOW DRAIN
	YARD HYDRANT
	HOSE BIBB
	WALL HYDRANT
V B	VACUUM BREAKER ASSEMBLY
	THERMOMETER
	PRESSURE GAUGE W/VALVE
BFP	BACKFLOW PREVENTER
	FLOOR, AREA DRAIN (RISER)
	ROOF DRAIN (RISER)
	WATER HAMMER ARRESTOR
	FRESH AIR INLET (FAI)
M	METER
F	WATER FILTER
	PUMP
	DIRECTION OF FLOW
	PIPE BREAK
P #	RISER DESIGNATION
ST #	LEADER DESIGNATION
* #	EQUIPMENT DESIGNATION

SYMBOLS

SYMBOL	DESCRIPTION
—AV—	ACID VENT PIPING
—AW—	ACID WASTE PIPING
—CA—	COMPRESSED AIR PIPING (INSTRUMENT GRADE)
—GRW—	GRAY WATER PIPING
—EPD—	EJECTOR PUMP DISCHARGE PIPING
—FA—	FRESH AIR INLET
—FOR—	FUEL OIL RETURN
—FOS—	FUEL OIL SUPPLY
—FOV—	FUEL OIL VENT
—GW—	GREASE WASTE PIPING
—W—	INDIRECT WASTE PIPING
—SPD—	SUMP PUMP DISCHARGE PIPING
—OD—	OVERFLOW DRAINAGE PIPING
—SOD—	SIPHONIC STORM DRAINAGE PIPING
—TF—	TANK FILL PIPING
—TW—	TEPID WATER PIPING
—NP—	NON-POTABLE WATER PIPING
—VAC—	VACUUM PIPING
—O2—	OXYGEN PIPING
—N2—	NITROGEN PIPING
—CO2—	CARBON DIOXIDE PIPING
—TP—	TRAP PRIMER PIPING
	ELECTRIC HEAT TRACING
	EXISTING PIPING TO BE REMOVED
	EXISTING PIPING TO BE ABANDONED
	POINT OF DISCONNECTION FOR EXISTING WORK
	POINT OF CONNECTION NEW PIPE TO EXISTING
	MOTOR VALVE
	SOLENOID VALVE
	DIAPHRAGM VALVE
	BALANCING VALVE
	ANGLE VALVE
	OS & Y VALVE
	OS & Y VALVE IN VERTICAL
	GAS PRESSURE REGULATOR
	AUTOMATIC AIR VENT VALVE
	T & P RELIEF VALVE
	BACKWATER VALVE
TP	TRAP PRIMER
	HOUSE TRAP
	AQUASTAT
EJ	EXPANSION JOINT
	FLEXIBLE CONNECTION
	EXPANSION LOOP
	CONCENTRIC REDUCER
	STRAINER Y-TYPE
	BASKET STRAINER
	STANDPIPE (RISER) WATERTIGHT PIPE SLEEVE, BEAM PENETRATION
GD	GUTTER DRAIN (RISER)
	FUNNEL DRAIN (RISER)
FS	FLOOR SINK (RISER)
MS	MOP SINK (RISER)
SH	SHOWER DRAIN (RISER)

ABBREVIATIONS

SYMBOL	DESCRIPTION
AD	AREA DRAIN
ARCH	ARCHITECTURAL
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BOP	BOTTOM OF PIPE
CA	COMPRESSED AIR
CLG	CEILING
CO	CLEANOUT
CODP	CLEANOUT DECK PLATE
COWP	CLEANOUT WALL PLATE
CONN	CONNECTION
CONT	CONTINUATION
CW	DOMESTIC COLD WATER
DCV	DOUBLE CHECK VALVE
DET	DETAIL
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DRAIN
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
EQ	EQUAL
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
FAI	FRESH AIR INLET
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FS	FLOOR SINK
F.F.	FINISH FLOOR
FL	FLOOR
G	GAS PIPING
GAL	GALLON
GD	GUTTER DRAIN
GH	GROUND HYDRANT
GPM	GALLON PER MINUTE
HB	HOSE BIBB
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RETURN
I.E.	INVERT ELEVATION
IW	INDIRECT WASTE
LG	LOW PRESSURE GAS
MAX	MAXIMUM
MECH	MECHANICAL
MG	MEDIUM PRESSURE GAS
MH	MANHOLE
MIN	MINIMUM
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
RPZ	REDUCED PRESSURE ZONE
S	SANITARY WASTE
SCW	SOFTENED COLD WATER
SF	SQUARE FEET
ST	STORM DRAINAGE
TD	TRENCH DRAIN
TOP	TOP OF PIPE
TP	TRAP PRIMER
TYP	TYPICAL
V	VENT
UON	UNLESS OTHERWISE NOTED
VIF	VERIFY IN FIELD
VLV	VALVE
VTR	VENT THROUGH ROOF
W	WASTE
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
W/O	WITHOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
YH	YARD HYDRANT

GENERAL NOTES

1. ENTIRE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2018 IBC, 2006 ARKANSAS PLUMBING CODE, 2006 INTERNATIONAL FUEL GAS CODE, NATIONAL FIRE PROTECTION CODES, 2014 ARKANSAS ENERGY CODE (BASED ON THE 2009 INTERNATIONAL ENERGY CONSERVATION CODE) - ASHRAE 90.1 2007 AND ALL OTHER APPLICABLE CODES AND REGULATIONS.
2. COORDINATE PLUMBING SYSTEMS WITH WORK OF ALL OTHER TRADES PRIOR TO ANY FABRICATION OR INSTALLATION. PROVIDE ALL FITTINGS, OFFSETS, AND TRANSITIONS AS REQUIRED FOR A COMPLETE APPROVED WORKABLE INSTALLATION.
3. COORDINATE LOCATIONS OF ALL ROOF OPENINGS WITH STRUCTURAL MECHANICAL, AND ARCHITECTURAL PLANS PRIOR TO ANY INSTALLATION.
4. PLATFORMS, CURBS, AND FLASHINGS FOR PLUMBING EQUIPMENT SHALL BE AS INDICATED ON THE STRUCTURAL AND ARCHITECTURAL PLANS, UNLESS NOTED OTHERWISE. COORDINATE EXACT SIZES OF REQUIRED OPENINGS AND SUPPORTS FOR FURNISHED EQUIPMENT.
5. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND APPLICABLE CODES. PROVIDE ALL FITTINGS, TRANSITIONS, VALVES, AND OTHER DEVICES REQUIRED FOR A COMPLETE WORKABLE INSTALLATION.
6. MAINTENANCE LABEL SHALL BE AFFIXED TO ALL PLUMBING EQUIPMENT AND A MAINTENANCE MANUAL SHALL BE PROVIDED TO OWNER.
7. PIPES SHALL BE SUPPORTED AND BRACED PER SMACNA "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS". PIPE SUPPORTS SHALL BE LISTED IN THE MSS STANDARDS SEE SPECIFICATIONS.
8. THE CONTRACTOR SHALL NOT ROUTE ANY PIPES INTO ELEVATOR MACHINE, ELECTRICAL OR TELECOMMUNICATIONS ROOMS EXCEPT FIRE PROTECTION PIPE SERVING THAT ROOM.
9. INSTALL ALL FIXTURES AT HEIGHTS INDICATED ON ARCHITECTURAL DRAWINGS AND IN ACCORDANCE WITH BUILDING CODE.
10. STORM DRAIN PIPNG IN BASED ON 3.6 INCHES/HOUR RAINFALL INTENSITY.
11. PROVIDE WATER HAMMER ARRESTOR WITH ACCESS PANEL TO FLUSH VALVE AND SOLENOID OPERATED VALVE PLUMBING FIXTURES.
12. WET PIPEWORK SHALL NOT RUN THROUGH ELECTRICAL ROOMS AND AVOID WHERE POSSIBLE RUNNING BELOW AND COORDINATE WITH ELECTRICAL AND STRUCTURAL IF NECESSARY.
13. ALL CW & HW BRANCHES SERVING MORE THAN 1 FIXTURE TO BE PROVIDED WITH INDIVIDUAL BRANCH SHUT-OFF VALVES

PLUMBING EQUIPMENT NAMING CONVENTION

BUILDING NAMES:

CUPS:
SOUTH CUP - B
NORTH CUP - C

AMENITIES:
FOOD HALL - D
FITNESS - E
AMC - 04

OFFICES:
OFFICE BUILDING 1 - 01
OFFICE BUILDING 2 - 02
OFFICE BUILDING 3 - 03
OFFICE BUILDING 5 - 05
OFFICE BUILDING 6 - 06
OFFICE BUILDING 7 - 07
OFFICE BUILDING 8 - 08
OFFICE BUILDING 9 - 09
OFFICE BUILDING 10 - 10
OFFICE BUILDING 11 - 11
OFFICE BUILDING 12 - 12

LEVELS / FLOORS:

LEVEL B1:	0
LEVEL 1:	1
LEVEL 2:	2
LEVEL 3:	3
LEVEL 4:	4
LEVEL 5:	5
ROOF:	6

TAG OPTIONS:



PLUMBING DRAWING LIST - TI

Building ID	Volume	Sheet Number	Sheet Name
OF03-Z01	V2	P00.001.1	PLUMBING LEGEND, GENERAL NOTES, AND ABBREVIATIONS - TI
OF03-Z01	V2	P02.100.1	PLUMBING PLAN - LEVEL B01 - TI
OF03-Z01	V2	P02.101.1	PLUMBING PLAN - LEVEL 01 - TI
OF03-Z01	V2	P02.102.1	PLUMBING PLAN - LEVEL 02 - TI
OF03-Z01	V2	P02.103.1	PLUMBING PLAN - LEVEL 03 - TI
OF03-Z01	V2	P02.104.1	PLUMBING PLAN - LEVEL 04 - TI

REVIEWED FOR CODE COMPLIANCE
03/21/2021
BOARDMAN + LOCKHEIM INC.

WALMART CAMPUS

Walmart

BENTONVILLE, AR

FACILITY # XXXXX-XXX (FOUNDATION)

FACILITY # XXXXX-XXX (SUPERSTRUCTURE)

Gensler

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United States

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Fax 214.273.1505

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560 Mission Street, Suite 700
San Francisco, CA 94105
Tel (415) 957 9445 Fax (415) 957 9096
www.arup.com

KEY PLAN



△ Date	Description
10.22.2020	DESIGN DEVELOPMENT - TI
11.20.2020	ISSUE FOR GC RFP AND IGMP
11.23.2020	ADH BUILDING SUBMISSIONS
01.28.2021	ISSUE FOR PERMIT

Seal / Signature

STATE OF ARKANSAS
REGISTERED
ENGINEER
No. 19518
DARNELL

Project Name

OFFICE BUILDING 03
(OF03-Z01)

Project Number

272243

Description

PLUMBING LEGEND, GENERAL NOTES, AND ABBREVIATIONS - TI

Scale

NOT TO SCALE

ID	VOLUME	SHEET
OF03-Z01	V2	P00.001.1

City of Bentonville Project No. COM20-0058

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SYMBOLS

SYMBOL	DESCRIPTION
S	SANITARY PIPING BELOW GRADE
S	SANITARY PIPING ABOVE GRADE
V	VENT PIPING
ST	STORM DRAINAGE PIPING
ST	STORM DRAINAGE PIPING BELOW GRADE
SST	SIPHONIC STORM DRAINAGE PIPING
SST	SIPHONIC STORM DRAINAGE PIPING BELOW GRADE
CW	COLD WATER PIPING
SCW	SOFTENED COLD WATER
HW	HOT WATER PIPING
HWR	HOT WATER RETURN PIPING
G	GAS PIPING
	SHUT-OFF VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	BALANCING VALVE ASSEMBLY
	COCK VALVE
	VALVE IN VERTICAL
	CURB VALVE
	MIXING VALVE
C	PIPE DROP, RISE OR DOWN
	PIPE CONNECTION, TOP
	PIPE CONNECTION, BOTTOM
	PIPE UP
CC	"P" TRAP
	CLEANOUT
	CLEANOUT DECK PLATE
C	CAPPED OUTLET
	DIELECTRIC UNION
	VENT THROUGH ROOF
	FLOOR DRAIN, AREA DRAIN
	FLOOR SINK
	ROOF DRAIN, OVERFLOW DRAIN
	YARD HYDRANT
	HOSE BIBB
	WALL HYDRANT
V B	VACUUM BREAKER ASSEMBLY
	THERMOMETER
	PRESSURE GAUGE W/VALVE
BFP	BACKFLOW PREVENTER
	FLOOR, AREA DRAIN (RISER)
	ROOF DRAIN (RISER)
	WATER HAMMER ARRESTOR
	FRESH AIR INLET (FAI)
M	METER
F	WATER FILTER
P	PUMP
	DIRECTION OF FLOW
	PIPE BREAK
P #	RISER DESIGNATION
ST #	LEADER DESIGNATION
* #	EQUIPMENT DESIGNATION

SYMBOLS

SYMBOL	DESCRIPTION
AV	ACID VENT PIPING
AW	ACID WASTE PIPING
CA	COMPRESSED AIR PIPING (INSTRUMENT GRADE)
GRW	GRAY WATER PIPING
EPD	EJECTOR PUMP DISCHARGE PIPING
FAI	FRESH AIR INLET
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
GW	GREASE WASTE PIPING
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O2	OXYGEN PIPING
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TP	TRAP PRIMER PIPING
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	EXISTING PIPING TO BE REMOVED
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	POINT OF DISCONNECTION FOR EXISTING WORK
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	MOTOR VALVE
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	OS & Y VALVE
	OS & Y VALVE IN VERTICAL
	GAS PRESSURE REGULATOR
	AUTOMATIC AIR VENT VALVE
	T & P RELIEF VALVE
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TP	TRAP PRIMER
	HOUSE TRAP
	AQUASTAT
EJ	EXPANSION JOINT
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ABBREVIATIONS

SYMBOL	DESCRIPTION
AD	AREA DRAIN
ARCH	ARCHITECTURAL
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BOP	BOTTOM OF PIPE
CA	COMPRESSED AIR
CLG	CEILING
CO	CLEANOUT
CODP	CLEANOUT DECK PLATE
COWP	CLEANOUT WALL PLATE
CONN	CONNECTION
CONT	CONTINUATION
CW	DOMESTIC COLD WATER
DCV	DOUBLE CHECK VALVE
DET	DETAIL
DFU	DRAINAGE FIXTURE UNIT
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DR	DRAIN
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
EQ	EQUAL
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
FAI	FRESH AIR INLET
FCO	FLOOR CLEANOUT
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G	GAS PIPING
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HWR	DOMESTIC HOT WATER RETURN
I.E.	INVERT ELEVATION
IW	INDIRECT WASTE
LG	LOW PRESSURE GAS
MAX	MAXIMUM
MECH	MECHANICAL
MG	MEDIUM PRESSURE GAS
MH	MANHOLE
MIN	MINIMUM
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN
PRV	PRESSURE REDUCING VALVE
RD	ROOF DRAIN
RPZ	REDUCED PRESSURE ZONE
S	SANITARY WASTE
SCW	SOFTENED COLD WATER
SF	SQUARE FEET
ST	STORM DRAINAGE
TD	TRENCH DRAIN
TOP	TOP OF PIPE
TP	TRAP PRIMER
TYP	TYPICAL
V	VENT
UON	UNLESS OTHERWISE NOTED
V/F	VERIFY IN FIELD
VLV	VALVE
VTR	VENT THROUGH ROOF
W	WASTE
W/	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
W/O	WITHOUT
WH	WALL HYDRANT
WHA	WATER HAMMER ARRESTOR
YH	YARD HYDRANT

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13. ALL CW & HW BRANCHES SERVING MORE THAN 1 FIXTURE TO BE PROVIDED WITH INDIVIDUAL BRANCH SHUT-OFF VALVES

PLUMBING EQUIPMENT NAMING CONVENTION

BUILDING NAMES:

CUPS:
SOUTH CUP - B
NORTH CUP - C

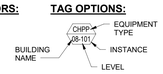
AMENITIES:
FOOD HALL - D
FITNESS - E
AMC - 04

OFFICES:
OFFICE BUILDING 1 - 01
OFFICE BUILDING 2 - 02
OFFICE BUILDING 3 - 03
OFFICE BUILDING 5 - 05
OFFICE BUILDING 6 - 06
OFFICE BUILDING 7 - 07
OFFICE BUILDING 8 - 08
OFFICE BUILDING 9 - 09
OFFICE BUILDING 10 - 10
OFFICE BUILDING 11 - 11
OFFICE BUILDING 12 - 12

LEVELS / FLOORS:

LEVEL B1:	0
LEVEL 1:	1
LEVEL 2:	2
LEVEL 3:	3
LEVEL 4:	4
LEVEL 5:	5
ROOF:	6

TAG OPTIONS:



PLUMBING DRAWING LIST

Building ID	Volume	Sheet Number	Sheet Name
OF03-Z01	V2	P00.101	PLUMBING ENERGY COMPLIANCE FORMS
OF03-Z01	V2	P00.001	PLUMBING LEGEND, GENERAL NOTES, AND ABBREVIATIONS
OF03-Z01	V2	P01.101	PLUMBING SITE PLAN
OF03-Z01	V2	P02.100U	PLUMBING PLAN - UNDERGROUND LEVEL
OF03-Z01	V2	P02.100	PLUMBING PLAN - LEVEL B01
OF03-Z01	V2	P02.101	PLUMBING PLAN - LEVEL 01
OF03-Z01	V2	P02.102	PLUMBING PLAN - LEVEL 02
OF03-Z01	V2	P02.103	PLUMBING PLAN - LEVEL 03
OF03-Z01	V2	P02.104	PLUMBING PLAN - LEVEL 04
OF03-Z01	V2	P02.106	PLUMBING PLAN - ROOF LEVEL
OF03-Z01	V2	P05.101	PLUMBING SANITARY AND VENT RISER DIAGRAM
OF03-Z01	V2	P05.102	PLUMBING DOMESTIC WATER RISER DIAGRAM
OF03-Z01	V2	P05.103	PLUMBING STORM WATER RISER DIAGRAM
OF03-Z01	V2	P06.101	PLUMBING SCHEDULES
OF03-Z01	V2	P07.101	PLUMBING DETAILS

WALMART CAMPUS

Walmart

BENTONVILLE, AR

FACILITY # XXXXX-XXX (FOUNDATION)

FACILITY # XXXXX-XXX (SUPERSTRUCTURE)

Gensler

5005 Greenville Avenue
Dallas, TX 75206
United States

Tel 214.273.1500
Fax 214.273.1505

ARUP

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560 Mission Street, Suite 700
San Francisco, CA 94105
Tel (415) 957 9445 Fax (415) 957 9096
www.arup.com

KEY PLAN



△	Date	Description
	09.19.2019	50% SCHEMATIC DESIGN
	11.07.2019	SCHEMATIC DESIGN
	03.26.2020	50% DESIGN DEVELOPMENT
	05.21.2020	50% DESIGN DEVELOPMENT - TI WORKPLACE
	06.18.2020	DESIGN DEVELOPMENT - CORE & SHELL
	06.18.2020	50% DESIGN DEVELOPMENT - TI AMENITY
	08.20.2020	DESIGN DEVELOPMENT - TI
	10.08.2020	CD PROGRESS OF03, OF06
	11.20.2020	ISSUE FOR GC RFP AND IGMP
	11.23.2020	ADH BUILDING SUBMISSIONS
	01.28.2021	ISSUE FOR PERMIT
	11.18.2021	ISSUE FOR CONSTRUCTION

Seal / Signature



Project Name

OFFICE BUILDING 03
(OF03-Z01)

Project Number

272243

Description

PLUMBING LEGEND, GENERAL NOTES, AND ABBREVIATIONS

Scale

NOT TO SCALE

ID	VOLUME	SHEET
OF03-Z01	V2	P00.001

City of Bentonville Project No. COM20-0058

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❑ HVAC O&M documents for all mechanical equipment and system provided to the owner by the mechanical contractor.
❑ Written HVAC balancing and operations report provided to the owner.

The above post construction requirements have been completed.

Principal Mechanical Designer-Name	Signature	Date

Generated by COM*check-Web* Software

Mechanical Compliance Certificate

Section 1: Project Information

Energy Code: **2009 IECC**
Project Title: Walmart Office 2
Project Type: New Construction

Construction Site:
1402 E Central Ave
Bentonville, Arkansas 72712

Owner/Agent:
Josh Tuberville
Walmart Stores, Inc
1108 SE 10th St,
Bentonville, Arkansas 72712
479-204-2923

Designer/Contractor:
Adam Mansour
Arup
560 Mission St #700
San Francisco, California 94109
415-204-2923
adam.mansour@arup.com

Section 2: General Information

Building Location (for weather data): Bentonville, Arkansas
Climate Zone: 4a

Section 3: Mechanical Systems List

Quantity	System Type & Description
1	WH-02-101: Electric Storage Water Heater, Capacity: 400 gallons w/ Circulation Pump Proposed Efficiency: 0.90 EF, Required Efficiency: 0.40 EF

Section 4: Requirements Checklist

Requirements Specific To: WH-02-101 :

☑ 1. Water heating equipment meets minimum efficiency requirements: Electric Water Heater efficiency: 0.40 EF (720 SL, Btu/h (if > 12 kW))
☑ 2. All piping in circulating system insulated
☑ 3. Hot water storage temperature controls that allow setpoint of 90°F for non-dwelling units and 110°F for dwelling units.
☑ 4. Automatic time control of heat tapes and recirculating systems present
☑ 5. Controls will shut off operation of circulating pump between water heater/boiler and storage tanks within 5 minutes after end of heating cycle

Generic Requirements: Must be met by all systems to which the requirement is applicable:
None

Section 5: Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2009 IECC requirements in COM*check-Web* and to comply with the mandatory requirements in the Requirements Checklist.

Raj Daswani - Principal		01/21/2021
Name - Title	Signature	Date

Section 6: Post Construction Compliance Statement

❑ HVAC record drawings of the actual installation, system capacities, calibration information, and performance data for each equipment provided to the owner.

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FACILITY # XXXXX-XXX (SUPERSTRUCTURE)

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KEY PLAN



△	Date	Description
	11.20.2020	ISSUE FOR GC RFP AND IGMP
	11.23.2020	ADH BUILDING SUBMISSIONS
	01.28.2021	ISSUE FOR PERMIT
	11.18.2021	ISSUE FOR CONSTRUCTION

Seal / Signature

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
No. 19518
RAJ DASWANI

Project Name
OFFICE BUILDING 03
(OF03-Z01)

Project Number
272243

Description
PLUMBING ENERGY COMPLIANCE FORMS

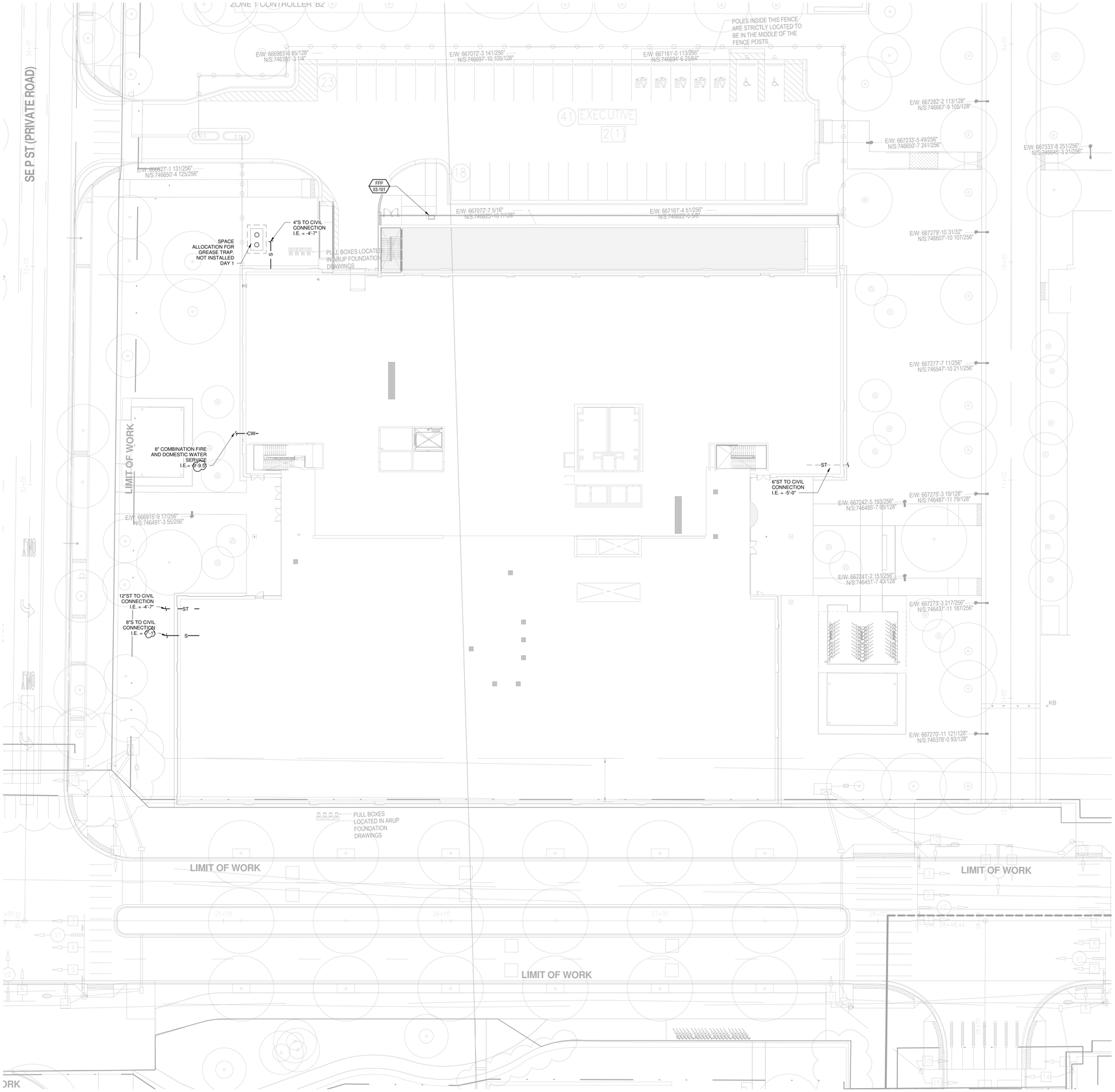
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ID	VOLUME	SHEET
OF03-Z01	V2	P00.101

City of Bentonville Project No. COM20-0058

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SHEET NOTES

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FACILITY # XXXXX-XXX (SUPERSTRUCTURE)

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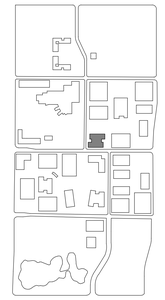
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KEY PLAN



△	Date	Description
	03.26.2020	50% DESIGN DEVELOPMENT
	05.21.2020	50% DESIGN DEVELOPMENT - TI WORKPLACE
	06.18.2020	DESIGN DEVELOPMENT - CORE & SHELL
	06.18.2020	50% DESIGN DEVELOPMENT - TI AMENITY
	10.08.2020	CD PROGRESS OF03, OF06
	11.20.2020	ISSUE FOR GC RFP AND IGMP
	11.23.2020	ADH BUILDING SUBMISSIONS
	01.28.2021	ISSUE FOR PERMIT
	11.18.2021	ISSUE FOR CONSTRUCTION

Seal / Signature

STATE OF ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
No. 19518
DARNELL

Project Name

OFFICE BUILDING 03
(OF03-Z01)

Project Number

272243

Description

PLUMBING SITE PLAN

Scale

1/16" = 1'-0"

ID	VOLUME	SHEET
OF03-Z01	V2	P01.101

City of Bentonville Project No. COM20-0058

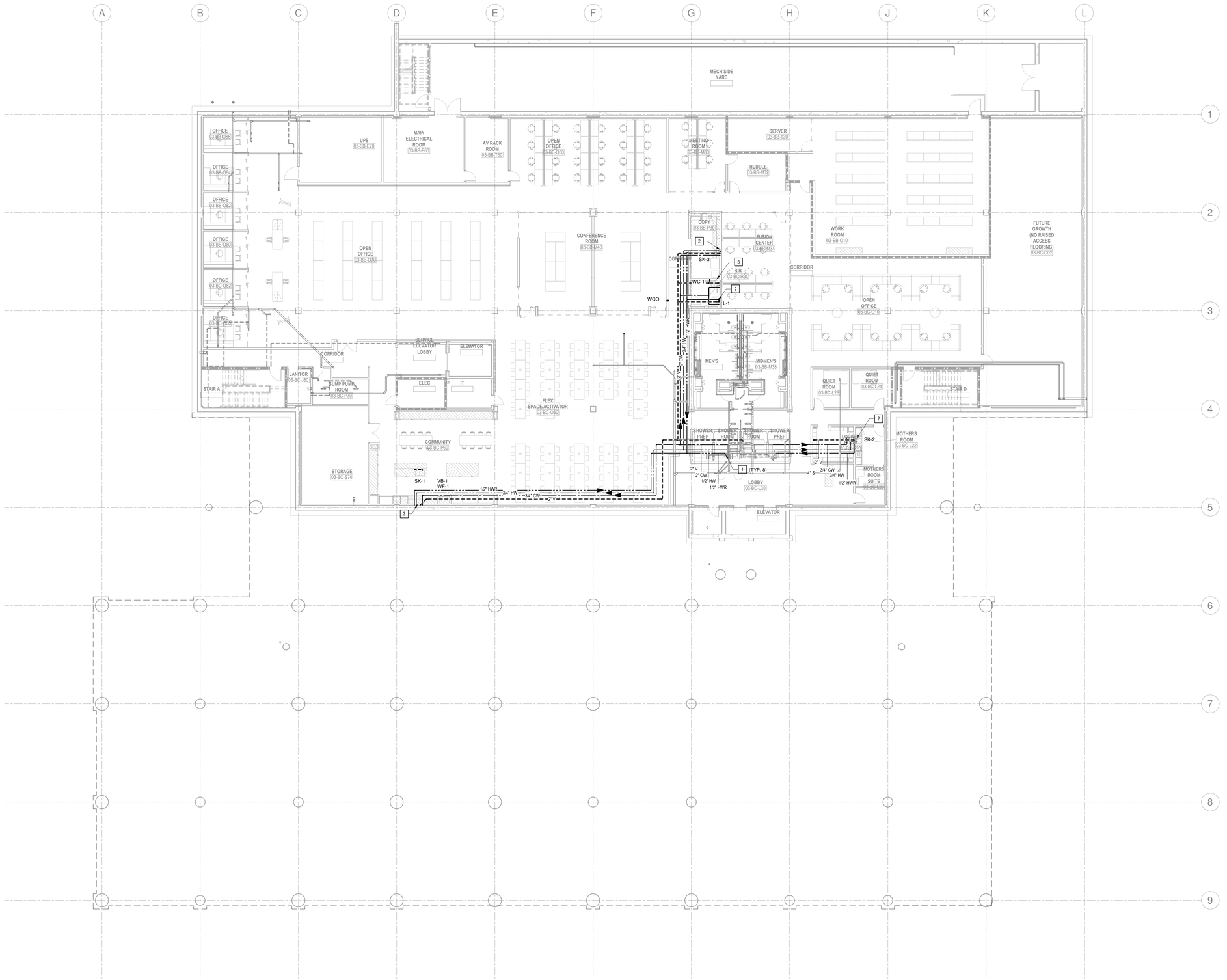
© 2021 Gensler

PLUMBING SITE PLAN
SCALE: 1/16" = 1'-0"

REF: /

01

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SHEET NOTES

1. CONNECT TO C+S PLUMBING INFRASTRUCTURE. SEE C+S PLUMBING DRAWINGS.
2. 2"S, 2"V, 3/4"CW, 3/4"HW TO PLUMBING FIXTURE
3. 4"S, 2"V, 1-1/2"CW TO PLUMBING FIXTURE

GENERAL NOTES

WALMART CAMPUS

Walmart

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FACILITY # XXXXX-XXX (SUPERSTRUCTURE)

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KEY PLAN



△	Date	Description
	10.22.2020	DESIGN DEVELOPMENT - TI
	11.20.2020	ISSUE FOR GC RFP AND IGMP
	11.23.2020	ADH BUILDING SUBMISSIONS
	01.28.2021	ISSUE FOR PERMIT
	11.18.2021	ISSUE FOR CONSTRUCTION

Seal / Signature

STATE OF ARKANSAS
REGISTERED
ENGINEER
No. 19518
DARNELL

Project Name

OFFICE BUILDING 03
(OF03-Z01)

Project Number

272243

Description

PLUMBING PLAN - LEVEL B01 - TI

Scale

3/32" = 1'-0"

0 5' 10' 20'

ID	VOLUME	SHEET
OF03-Z01	V2	P02.100.1

City of Bentonville Project No. COM20-0058

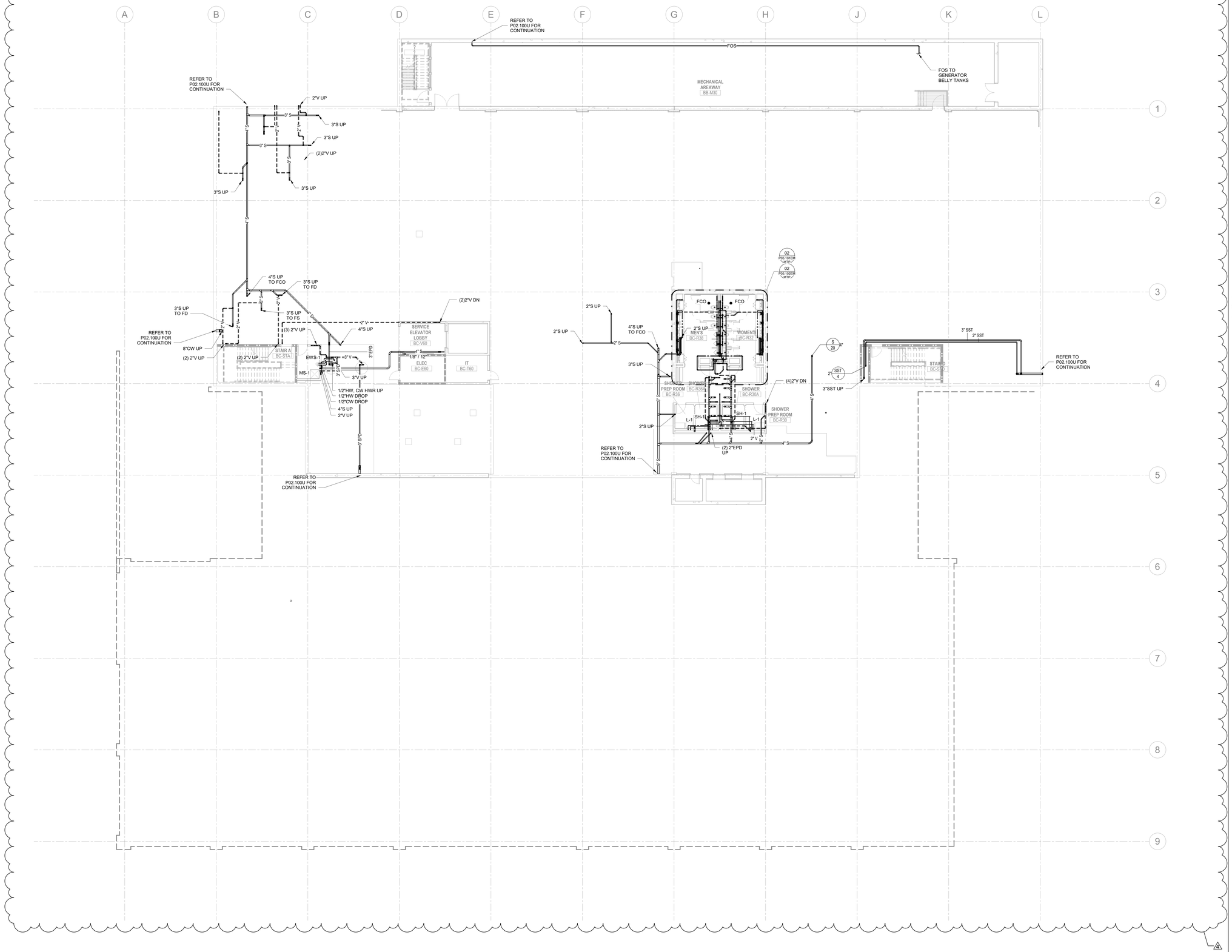
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PLUMBING PLAN - LEVEL B01 - TI

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

REF: /

01



SHEET NOTES

GENERAL NOTES

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FACILITY # 30003-500 (SUPERSTRUCTURE)

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KEY PLAN



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	11.20.2020	ISSUE FOR GC RFP AND IGMP
	11.23.2020	ADH BUILDING SUBMISSIONS
	01.28.2021	ISSUE FOR PERMIT
	11.18.2021	ISSUE FOR CONSTRUCTION
4	12.14.2022	ASI #004

REVIEWED FOR CODE COMPLIANCE
12/22/2022
EXAMINER – LICENSE NO.

Seal / Signature

STATE OF ARKANSAS
REGISTERED ENGINEER
No. 19518
R. J. DASHNER

Project Name

OFFICE BUILDING 03 (OF03-Z01)

Project Number

262880

Description

PLUMBING PLAN - LEVEL B01

Scale

3/32" = 1'-0"

0 5' 10' 20'

ID	VOLUME	SHEET
OF03-01	V2	P02.100

City of Bentonville Project No. COM20-0058

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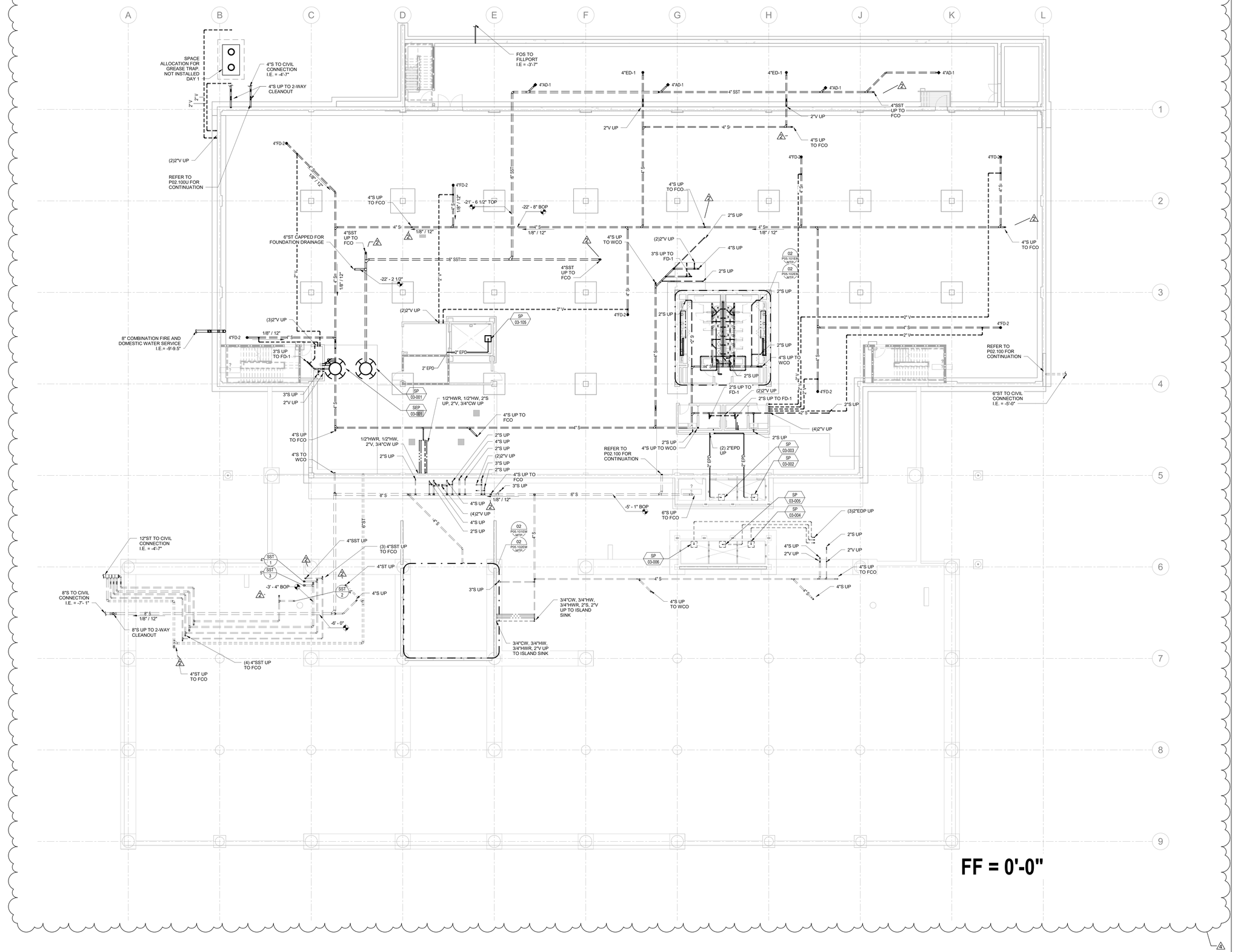
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SCALE: 3/32" = 1'-0"

REF: /

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SHEET NOTES

GENERAL NOTES

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KEY PLAN



	Date	Description
	03.26.2020	50% DESIGN DEVELOPMENT
	05.21.2020	50% DESIGN DEVELOPMENT - TI WORKPLACE
	06.18.2020	DESIGN DEVELOPMENT - CORE & SHELL
	06.18.2020	50% DESIGN DEVELOPMENT - TI AMENITY
	10.08.2020	CD PROGRESS OF03, OF06
	11.19.2020	ISSUE FOR FOUNDATION PERMIT
	11.20.2020	ISSUE FOR GC RFP AND IGMP
	11.23.2020	ADH BUILDING SUBMISSIONS
	01.28.2021	ISSUE FOR PERMIT
	10.14.2021	FOUNDATION PERMIT REVISION
	11.18.2021	ISSUE FOR CONSTRUCTION
2	06.30.2022	ASI #002
4	12.14.2022	ASI #004

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Seal / Signature

ARKANSAS LICENSED ENGINEER No. 19518 RAJ DASWANI

Project Name

OFFICE BUILDING 03 (OF03-Z01)

Project Number

262880

Description

PLUMBING PLAN - UNDERGROUND LEVEL

Scale

3/32" = 1'-0"

ID	VOLUME	SHEET
OF03-01	V2	P02.100U

City of Bentonville Project No. COM20-0058

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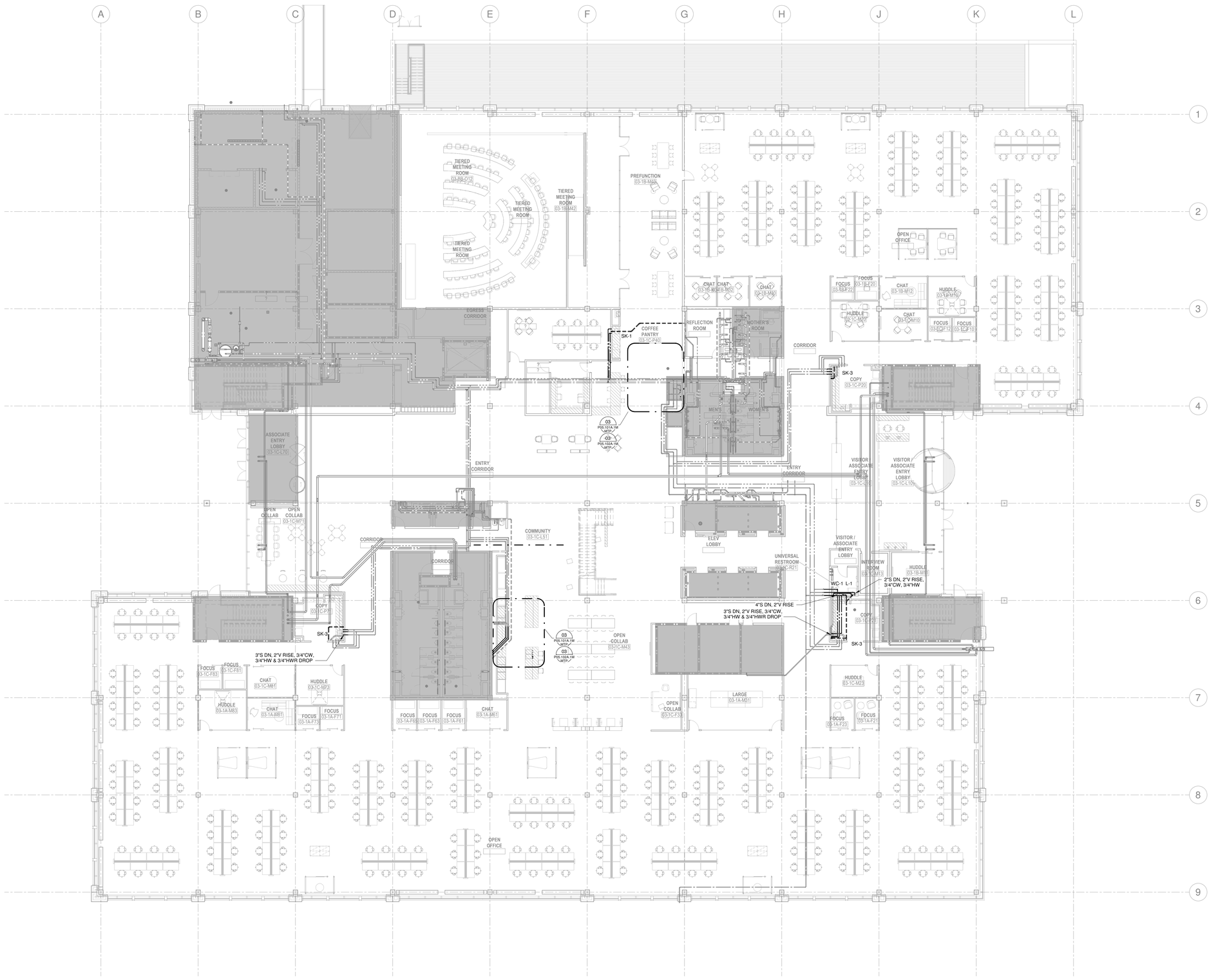
PLUMBING PLAN - UNDERGROUND LEVEL

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

REF: /

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SHEET NOTES

GENERAL NOTES

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KEY PLAN



△	Date	Description
	11.20.2020	ISSUE FOR GC RFP AND IGMP
	11.23.2020	ADH BUILDING SUBMISSIONS
	01.28.2021	ISSUE FOR PERMIT
	11.18.2021	ISSUE FOR CONSTRUCTION

Seal / Signature

STATE OF ARKANSAS — LICENSED — ENGINEER — No. 19518 — DARREN PRESWOOD

Project Name

OFFICE BUILDING 03 (OF03-Z01)

Project Number

272243

Description

PLUMBING PLAN - LEVEL 01 - TI

Scale

3/32" = 1'-0"

0 5' 10' 20'

ID	VOLUME	SHEET
OF03-Z01	V2	P02.101.1

City of Bentonville Project No. COM20-0058

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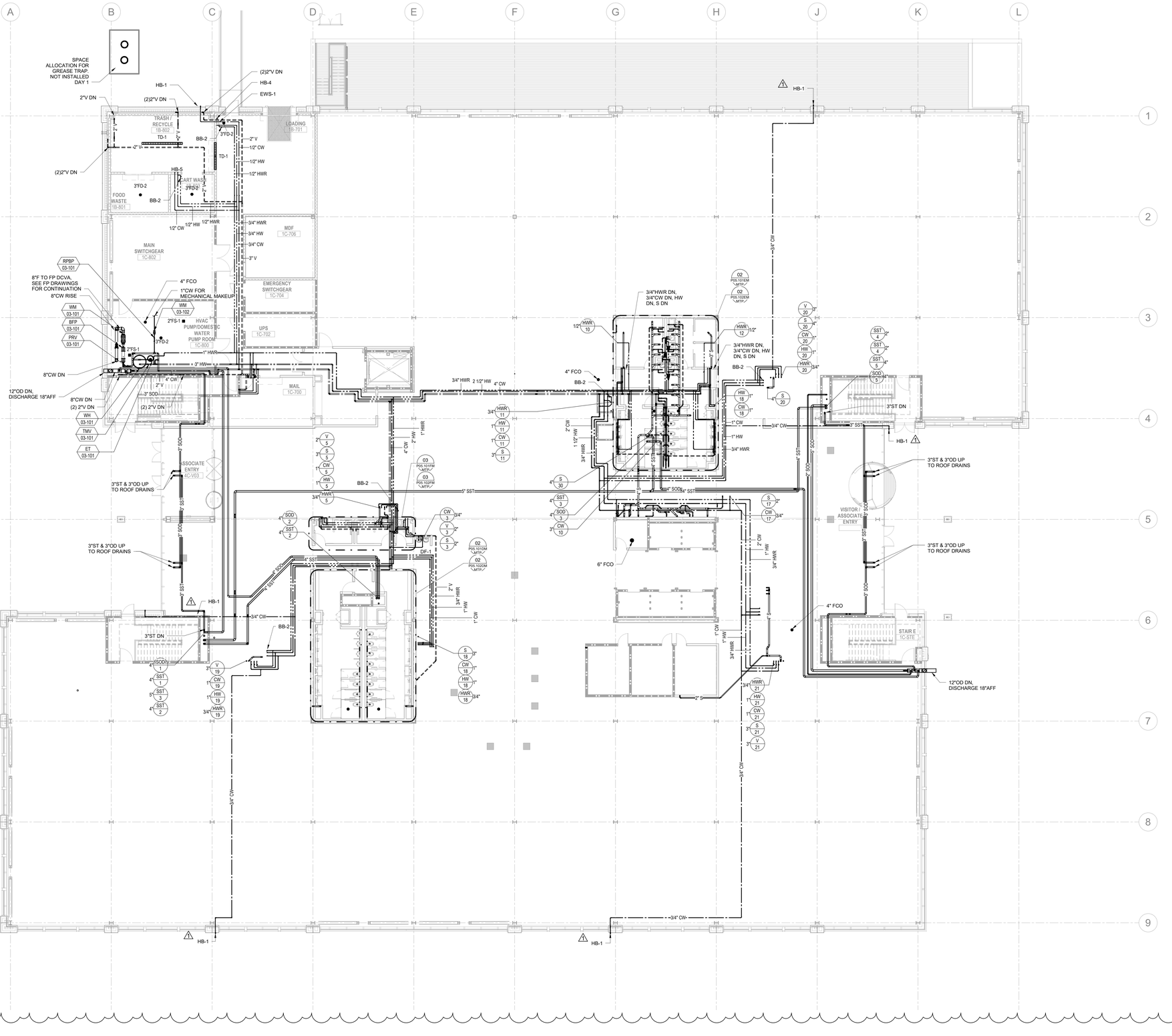
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SCALE: 3/32" = 1'-0"

REF: /

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SHEET NOTES

GENERAL NOTES

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KEY PLAN



	Date	Description
	09.19.2019	50% SCHEMATIC DESIGN
	11.07.2019	SCHEMATIC DESIGN
	03.26.2020	50% DESIGN DEVELOPMENT
	05.21.2020	50% DESIGN DEVELOPMENT - TI WORKPLACE
	06.18.2020	DESIGN DEVELOPMENT - CORE & SHELL
	06.18.2020	50% DESIGN DEVELOPMENT - TI AMENITY
	08.20.2020	DESIGN DEVELOPMENT - TI
	10.08.2020	CD PROGRESS OF03, OF06
	11.20.2020	ISSUE FOR GC RFP AND IGMP
	11.23.2020	AOH BUILDING SUBMISSIONS
	01.28.2021	ISSUE FOR PERMIT
	11.18.2021	ISSUE FOR CONSTRUCTION
1	04.14.2022	ASI #001
4	12.14.2022	ASI #004

REVIEWED FOR CODE COMPLIANCE
12/22/2022
EXAMINER - LICENSE NO.

Seal / Signature

ARKANSAS REGISTERED ENGINEER No. 19518 RAJ DASWANI

Project Name

OFFICE BUILDING 03 (OF03-Z01)

Project Number

262880

Description

PLUMBING PLAN - LEVEL 01

Scale

3/32" = 1'-0"

0 5' 10' 20'

ID	VOLUME	SHEET
OF03-01	V2	P02.101

City of Bentonville Project No. COM20-0058

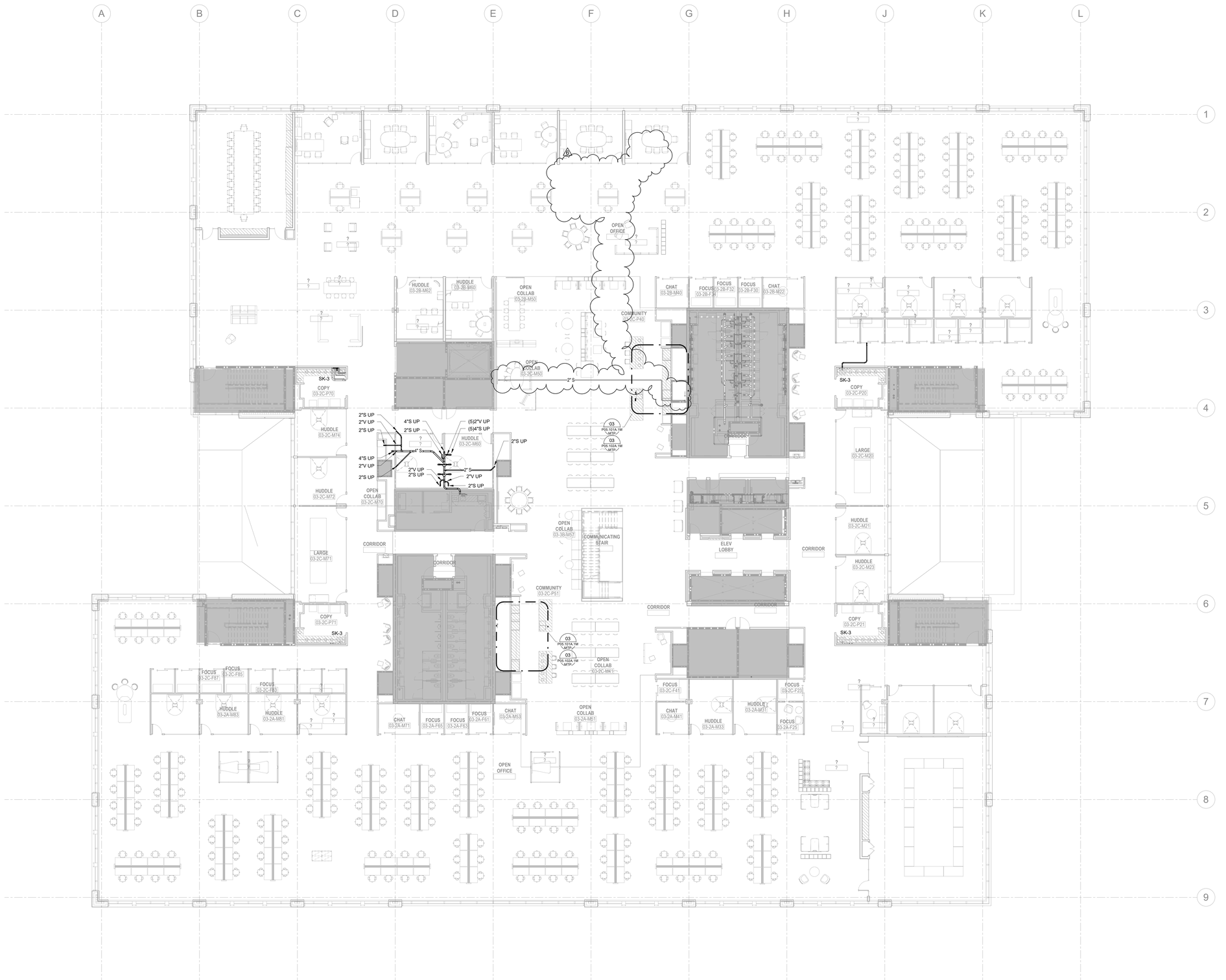
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PLUMBING PLAN - LEVEL 01

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

REF: /

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SHEET NOTES

GENERAL NOTES

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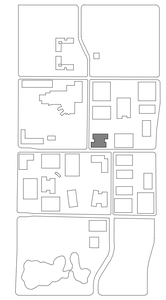
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KEY PLAN



△	Date	Description
	11.20.2020	ISSUE FOR GC RFP AND IGMP
	11.23.2020	ADH BUILDING SUBMISSIONS
	01.28.2021	ISSUE FOR PERMIT
	11.18.2021	ISSUE FOR CONSTRUCTION
6	08.10.2023	ASI #006

Seal / Signature

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 19518
DARDEN

Project Name

OFFICE BUILDING 03
(OF03-Z01)

Project Number

262880

Description

PLUMBING PLAN - LEVEL 02 - TI

Scale

3/32" = 1'-0"

0 5' 10' 20'

ID	VOLUME	SHEET
OF03-01	V2	P02.102.1

City of Bentonville Project No. COM20-0058

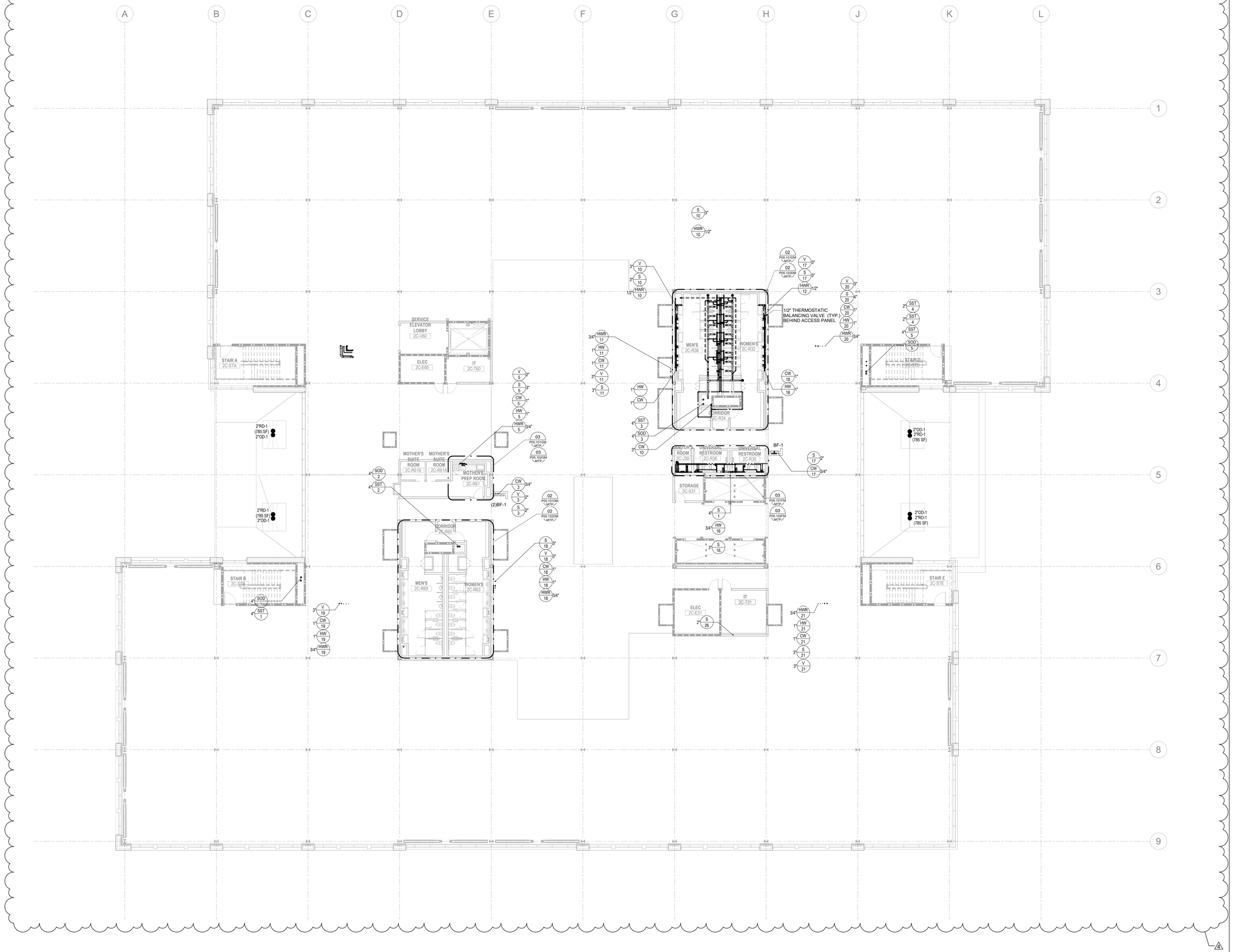
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PLUMBING PLAN - LEVEL 02 - TI

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

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SHEET NOTES

GENERAL NOTES

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KEY PLAN



△	Date	Description
	09.19.2019	50% SCHEMATIC DESIGN
	11.07.2019	SCHEMATIC DESIGN
	03.26.2020	50% DESIGN DEVELOPMENT
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	06.18.2020	DESIGN DEVELOPMENT - CORE & SHELL
	06.18.2020	50% DESIGN DEVELOPMENT - TI AMENITY
	08.20.2020	DESIGN DEVELOPMENT - TI
	10.08.2020	CD PROGRESS OF03, OF06
	11.20.2020	ISSUE FOR GC RFP AND IGMP
	11.23.2020	ADH BUILDING SUBMISSIONS
	01.28.2021	ISSUE FOR PERMIT
	11.18.2021	ISSUE FOR CONSTRUCTION
4	12.14.2022	ASI #004

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BUILDING — LICENSE NO.

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ARKANSAS
REGISTERED
LICENSED
ENGINEER
No. 19518
RAJ DASWANI

Project Name

OFFICE BUILDING 03 (OF03-Z01)

Project Number

262880

Description

PLUMBING PLAN - LEVEL 02

Scale

3/32" = 1'-0"

0 5 10' 20'

ID	VOLUME	SHEET
OF03-01	V2	P02.102

City of Bentonville Project No. COM20-0058

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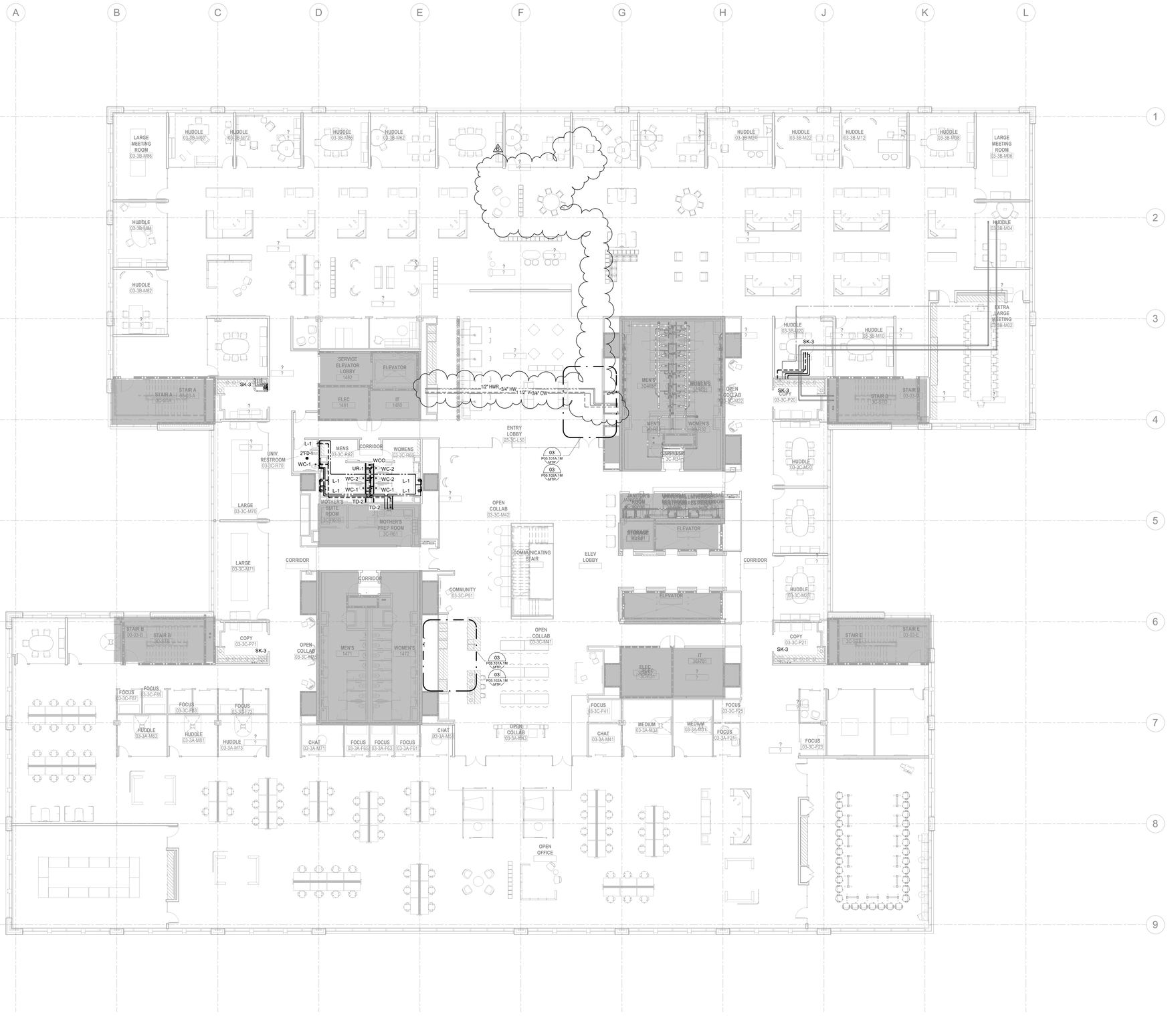
PLUMBING PLAN - LEVEL 02

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

REF: /

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SHEET NOTES

GENERAL NOTES

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Walmart

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FACILITY # XXXXX-XXX (FOUNDATION)

FACILITY # 30003-500 (SUPERSTRUCTURE)

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United States

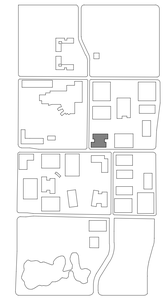
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08/14/2023
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KEY PLAN



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	11.20.2020	ISSUE FOR GC RFP AND IGMP
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	11.18.2021	ISSUE FOR CONSTRUCTION
6	08.10.2023	ASI #006

Seal / Signature

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 19518
DARREN

Project Name

OFFICE BUILDING 03
(OF03-Z01)

Project Number

262880

Description

PLUMBING PLAN - LEVEL 03 - TI

Scale

3/32" = 1'-0"

0 5' 10' 20'

ID	VOLUME	SHEET
OF03-01	V2	P02.103.1

City of Bentonville Project No. COM20-0058

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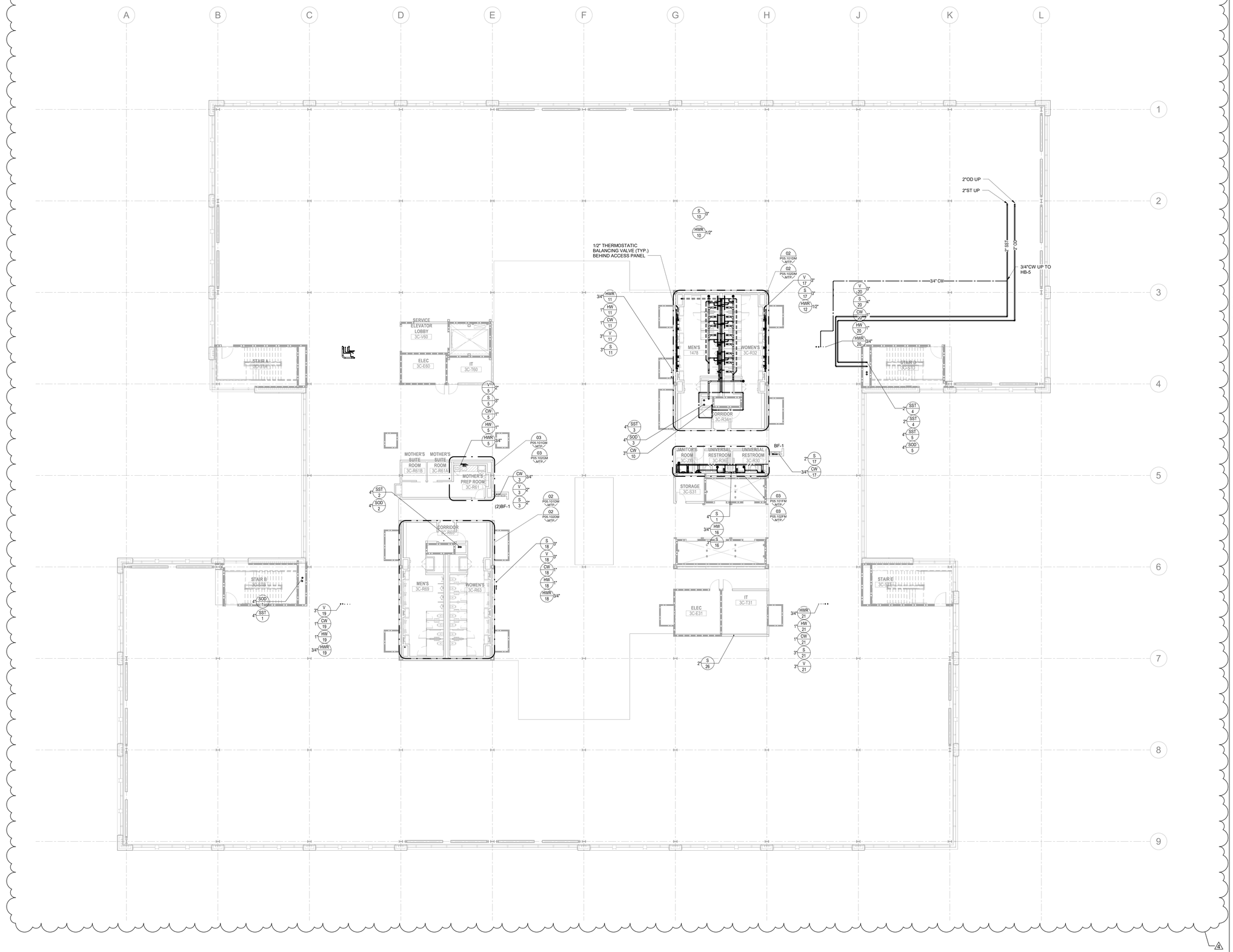
PLUMBING PLAN - LEVEL 03 - TI

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

REF: /

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SHEET NOTES

GENERAL NOTES

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www.arup.com

KEY PLAN



△	Date	Description
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	06.18.2020	50% DESIGN DEVELOPMENT - TI AMENITY
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	11.18.2021	ISSUE FOR CONSTRUCTION
4	12.14.2022	ASI #004

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STATE OF ARKANSAS
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LICENSED PROFESSIONAL ENGINEER
No. 19518
RAJ DASWANI

Project Name

OFFICE BUILDING 03
(OF03-Z01)

Project Number

262880

Description

PLUMBING PLAN - LEVEL 03

Scale

3/32" = 1'-0"

0 5' 10' 20'

ID	VOLUME	SHEET
OF03-01	V2	P02.103

City of Bentonville Project No. COM20-0058

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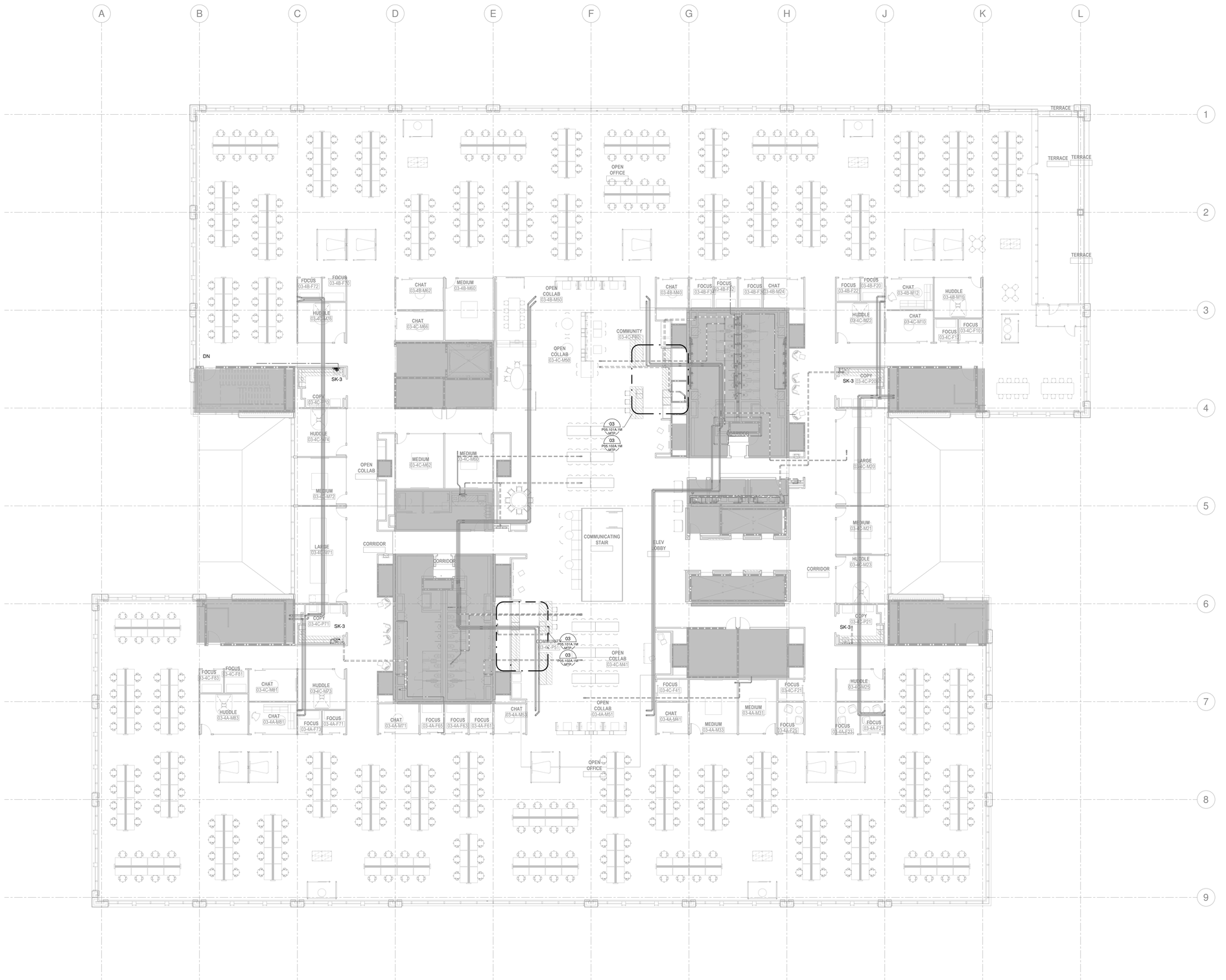
PLUMBING PLAN - LEVEL 03

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

REF: /

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SHEET NOTES

GENERAL NOTES

WALMART CAMPUS

Walmart

BENTONVILLE, AR

FACILITY # XXXXX-XXX (FOUNDATION)

FACILITY # XXXXX-XXX (SUPERSTRUCTURE)

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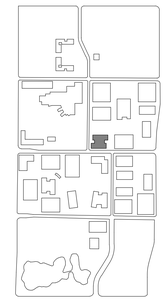
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United States

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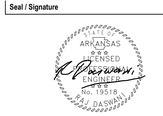
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San Francisco, CA 94105
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www.arup.com

KEY PLAN



Date	Description
11.20.2020	ISSUE FOR GC RFP AND IGMP
11.23.2020	ADH BUILDING SUBMISSIONS
01.28.2021	ISSUE FOR PERMIT
11.18.2021	ISSUE FOR CONSTRUCTION

Seal / Signature



Project Name

OFFICE BUILDING 03 (OF03-Z01)

Project Number

272243

Description

PLUMBING PLAN - LEVEL 04 - TI

Scale

3/32" = 1'-0"

0 5' 10' 20'

ID	VOLUME	SHEET
OF03-Z01	V2	P02.104.1

City of Bentonville Project No. COM20-0058

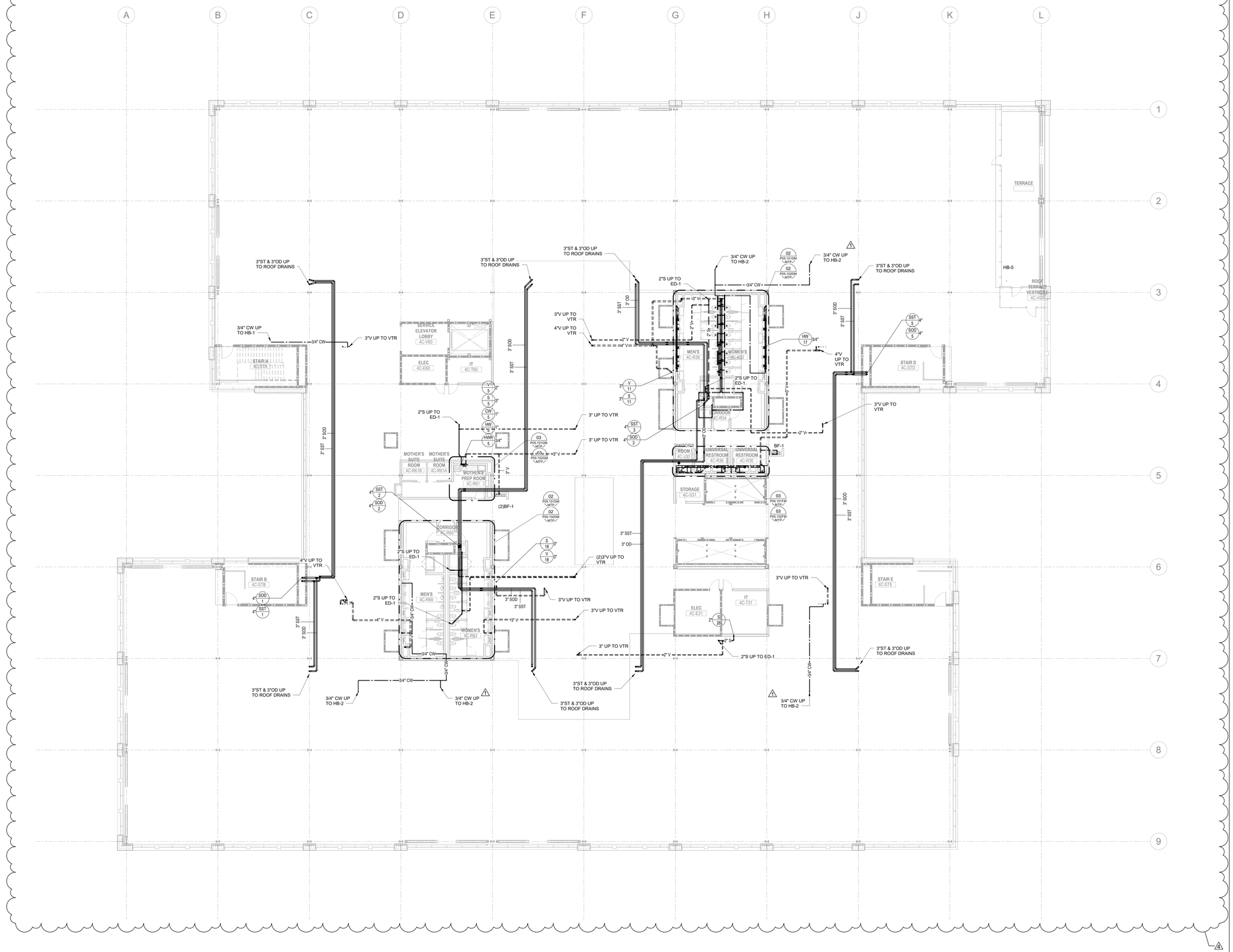
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PLUMBING PLAN - LEVEL 04 - TI

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

REF: /

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SHEET NOTES

GENERAL NOTES

WALMART CAMPUS

Walmart

BENTONVILLE, AR

FACILITY # XXXXX-XXX (FOUNDATION)

FACILITY # 30003-500 (SUPERSTRUCTURE)

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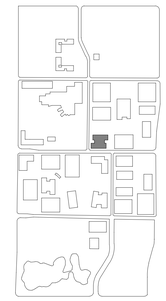
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KEY PLAN



△	Date	Description
	11.07.2019	SCHEMATIC DESIGN
	03.26.2020	50% DESIGN DEVELOPMENT
	05.21.2020	50% DESIGN DEVELOPMENT - TI WORKPLACE
	06.18.2020	DESIGN DEVELOPMENT - CORE & SHELL
	06.18.2020	50% DESIGN DEVELOPMENT - TI AMENITY
	08.20.2020	DESIGN DEVELOPMENT - TI
	10.08.2020	CD PROGRESS OF03, OF06
	11.20.2020	ISSUE FOR GC RFP AND IGMP
	11.23.2020	ADH BUILDING SUBMISSIONS
	01.28.2021	ISSUE FOR PERMIT
	11.18.2021	ISSUE FOR CONSTRUCTION
1	04.14.2022	ASI #001
4	12.14.2022	ASI #004

REVIEWED FOR CODE COMPLIANCE
12/22/2022
EXAMINER – LICENSE NO.

Seal / Signature

STATE OF ARKANSAS
DAVID LENSED
ENGINEER
No. 19518
RAJ DASWANI

Project Name

OFFICE BUILDING 03 (OF03-Z01)

Project Number

262880

Description

PLUMBING PLAN - LEVEL 04

Scale

3/32" = 1'-0"

0 5' 10' 20'

ID	VOLUME	SHEET
OF03-01	V2	P02.104

City of Bentonville Project No. COM20-0058

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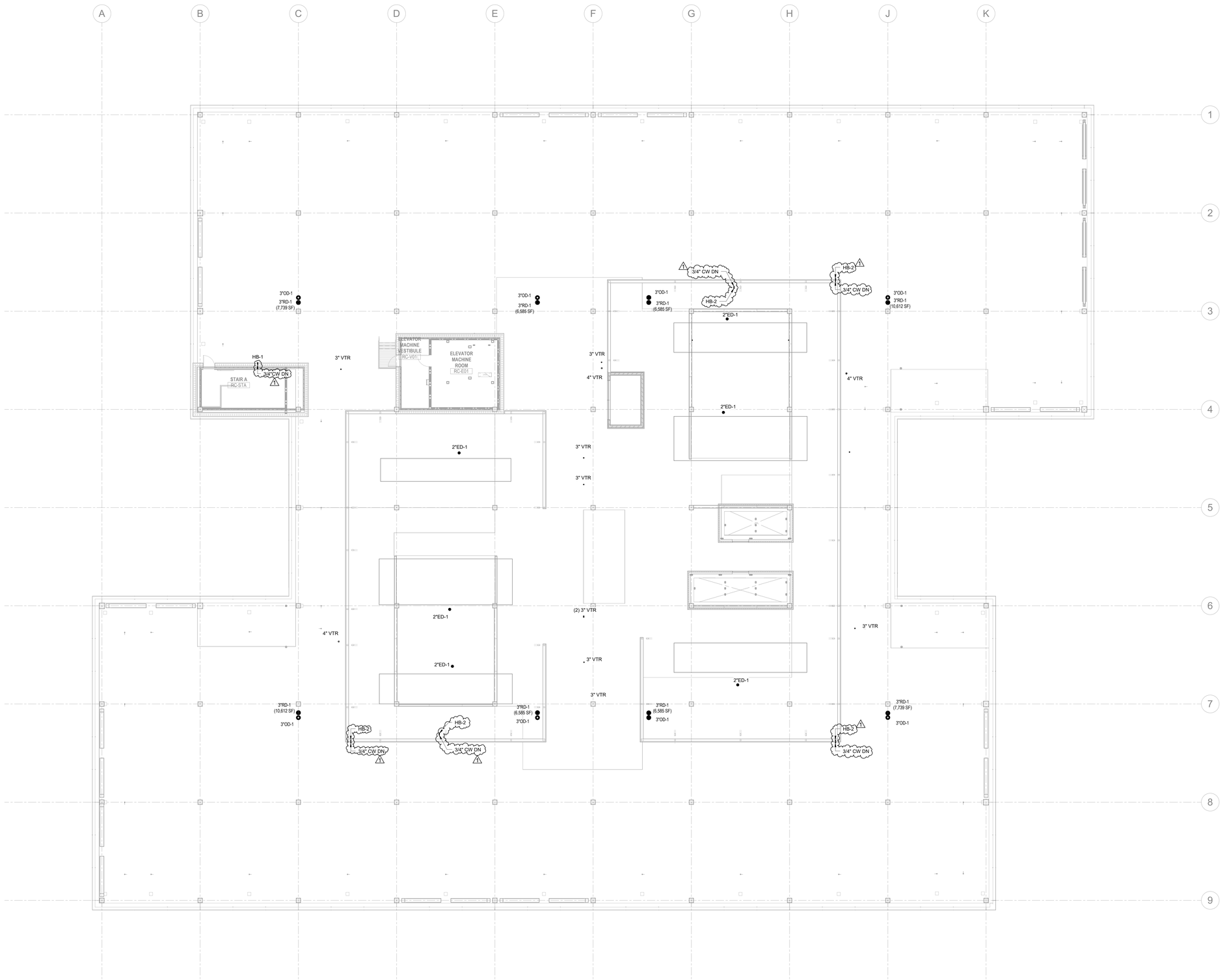
PLUMBING PLAN - LEVEL 04

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

REF: /

01

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SHEET NOTES

GENERAL NOTES

WALMART CAMPUS

Walmart

BENTONVILLE, AR

FACILITY # XXXXX-XXX (FOUNDATION)

FACILITY # XXXXX-XXX (SUPERSTRUCTURE)

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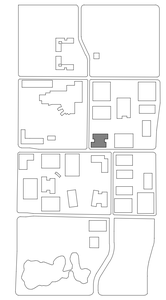
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	01.28.2021	ISSUE FOR PERMIT
	11.18.2021	ISSUE FOR CONSTRUCTION
1	04.14.2022	ASI #001

Seal / Signature

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 19518
DARRELL

Project Name

OFFICE BUILDING 03
(OF03-Z01)

Project Number

262880

Description

PLUMBING PLAN - ROOF LEVEL

Scale

3/32" = 1'-0"

0 5' 10' 20'

ID	VOLUME	SHEET
OF03-01	V2	P02.106

City of Bentonville Project No. COM20-0058

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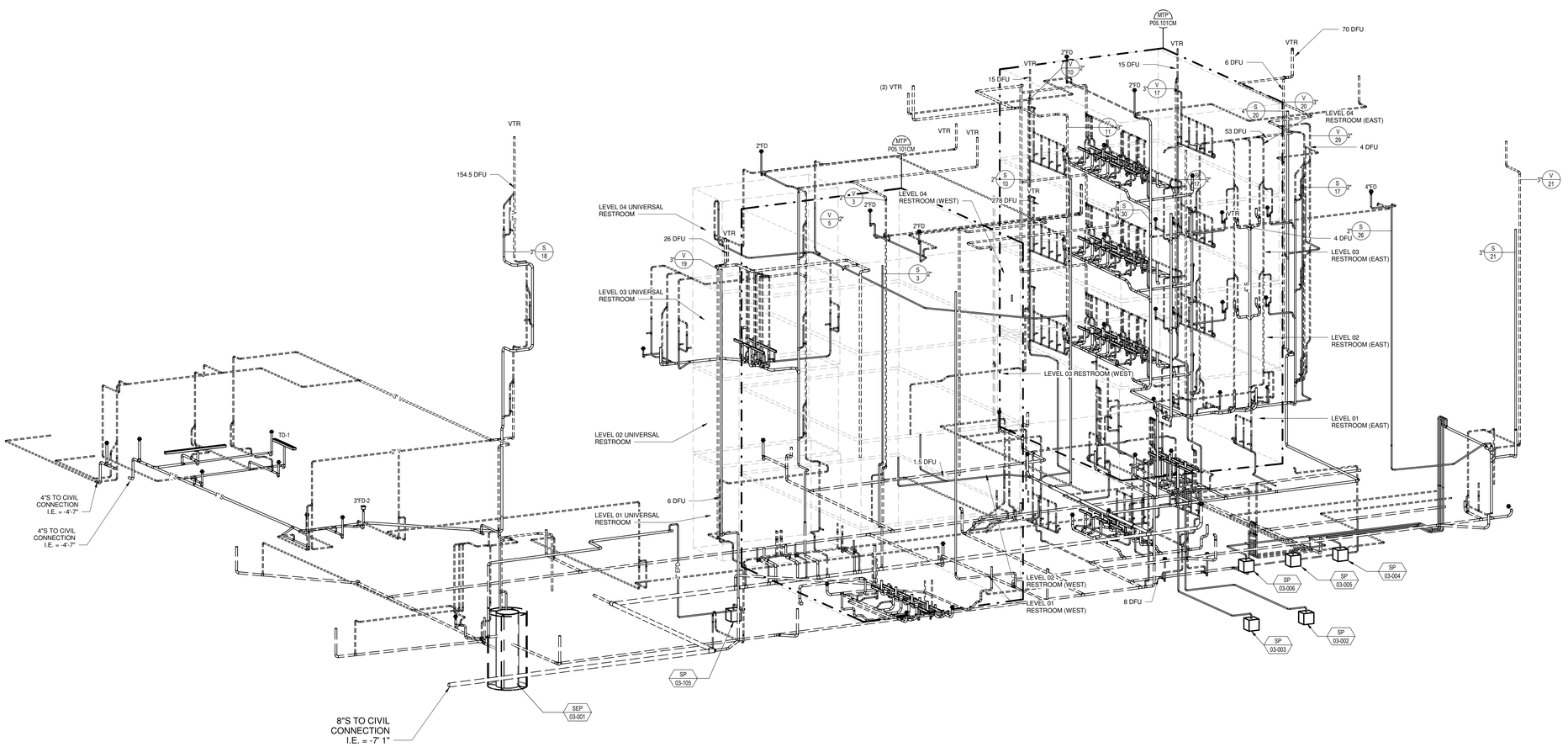
PLUMBING PLAN - ROOF LEVEL

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

REF: /

01

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PLUMBING SANITARY AND VENT RISER DIAGRAM

SCALE:

REF: /

01

WALMART CAMPUS

Walmart

BENTONVILLE, AR

FACILITY # XXXXX-XXX (FOUNDATION)

FACILITY # XXXXX-XXX (SUPERSTRUCTURE)

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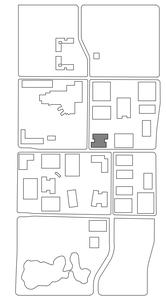
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Seal / Signature

STATE OF ARKANSAS
REGISTERED
ENGINEER
No. 19518
DARNELL

Project Name

OFFICE BUILDING 03
(OF03-Z01)

Project Number

272243

Description

PLUMBING SANITARY AND VENT RISER DIAGRAM

Scale

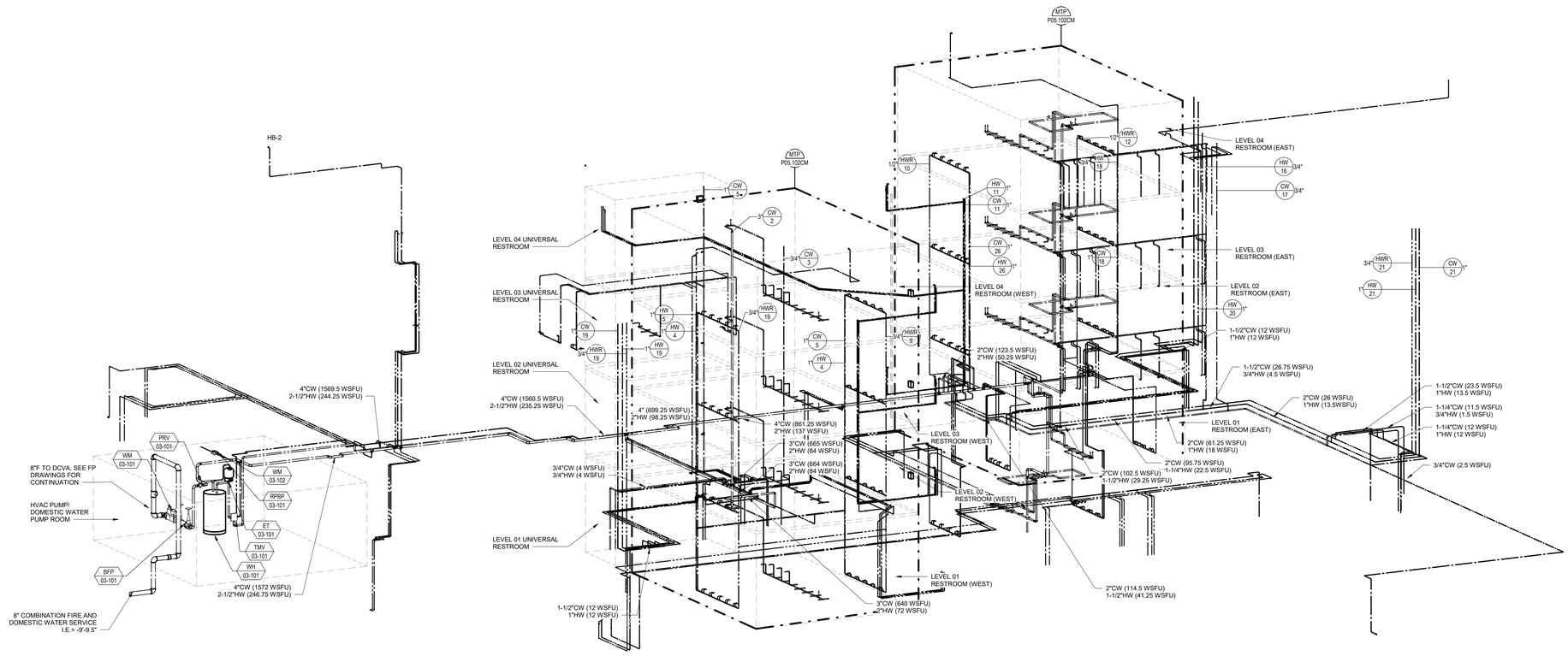
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ID	VOLUME	SHEET
OF03-Z01	V2	P05.101

City of Bentonville Project No. COM20-0058

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PLUMBING DOMESTIC WATER RISER DIAGRAM

SCALE:

REF: /

01

WALMART CAMPUS

Walmart

BENTONVILLE, AR

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FACILITY # XXXXX-XXX (SUPERSTRUCTURE)

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KEY PLAN



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Project Name

OFFICE BUILDING 03 (OF03-Z01)

Project Number

272243

Description

PLUMBING DOMESTIC WATER RISER DIAGRAM

Scale

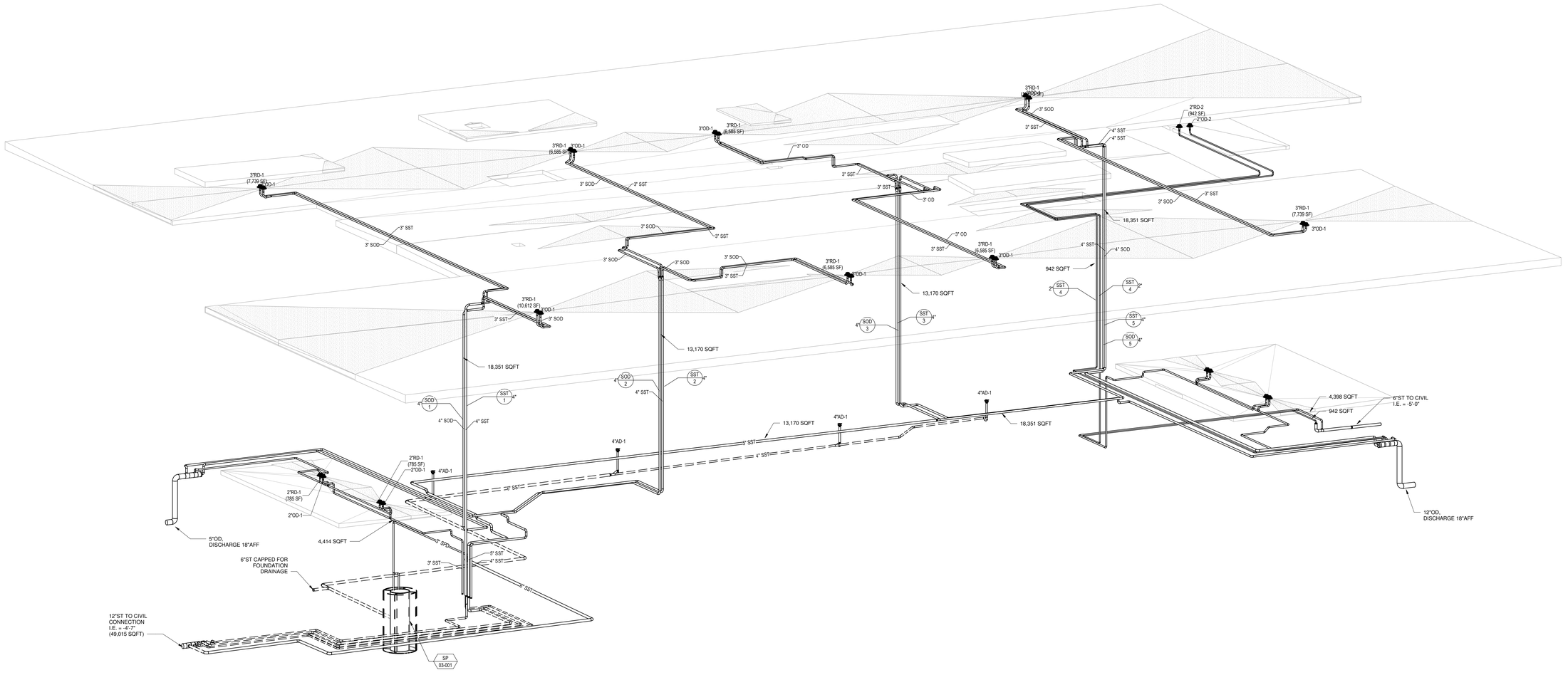
NOT TO SCALE

ID	VOLUME	SHEET
OF03-Z01	V2	P05.102

City of Bentonville Project No. COM20-0058

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PLUMING STORM WATER RISER DIAGRAM

SCALE:

REF: /

01

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WALMART CAMPUS

Walmart

BENTONVILLE, AR

FACILITY # XXXXX-XXX (FOUNDATION)

FACILITY # XXXXX-XXX (SUPERSTRUCTURE)

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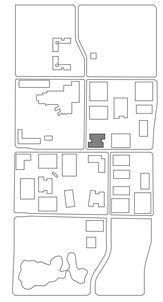
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	01.28.2021	ISSUE FOR PERMIT
	11.18.2021	ISSUE FOR CONSTRUCTION

Seal / Signature

ARKANSAS
LICENSED
ENGINEER
No. 19518
RAJ DASWANI

Project Name

OFFICE BUILDING 03
(OF03-Z01)

Project Number

272243

Description

PLUMBING STORM WATER RISER DIAGRAM

Scale

NOT TO SCALE

ID	VOLUME	SHEET
OF03-Z01	V2	P05.103

City of Bentonville Project No. COM20-0058

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CLEANOUT AND DRAIN SCHEDULE

TAG	DESCRIPTION	LOCATION	MANUFACTURER AND MODEL NUMBER	CLAMPING COLLAR	COVER/STRAINER	REMARKS
FD-1	FLOOR DRAIN	VARIES	JAY R SMITH 2005Y-A	YES	NICKEL BRONZE	JAY R SMITH 2005Y-A, DUCO CAST IRON BODY. INSTALL WITH JAY R SMITH 2692 QUAD CLOSE TRAP SEAL.
FD-2	FLOOR DRAIN	BOH	JAY R SMITH 2130	YES	CAST IRON	JAY R SMITH 2131Y, MEDIUM DUTY DUCO CAST IRON BODY WITH CAST IRON BAR GRATE. INSTALL WITH JAY R SMITH 2692 QUAD CLOSE TRAP SEAL.
ED-1	EQUIPMENT DRAIN	ROOF	JAY R SMITH 3960Y	YES	CAST IRON	JAY R SMITH 3960Y, DUCO CAST IRON RECEPTOR WITH SOLID WATER DAM AND CAST IRON DOME BOTTOM STRAINER.
FSK-1	FLOOR SINK	VARIES	JAY R SMITH 3160-Y	YES	CAST IRON	JAY R SMITH 3160Y, ACID RESISTANT COATED FLOOR & INDIRECT WASTE DRAIN, 12-1/2" SQUARE TOP, STAINLESS STEEL AND GRATE, DOME BOTTOM STRAINER, 10" DEEP RECEPTORS, PROVIDE TRAP PRIMER.
RD-1	ROOF DRAIN	ROOF	MIFAB MH-300	YES	CAST IRON	-
OD-1	OVERFLOW DRAIN	ROOF	MIFAB MH-301	YES	CAST IRON	SAME AS ROOF DRAIN (RD-1) WITH COLLAR TO SET RIM 2" ABOVE.
AD-1	AREA DRAIN	OUTDOOR WALKWAY	JAY R SMITH 2242	YES	CAST IRON	-
WCO-1	WALL CLEAN OUT	RESTROOMS	SIOUX CHIEF 870-(9)	YES	-	4" COVER DIAMETER
FCO-1	FLOOR CLEAN OUT	VARIES	ZURN Z1400-BZ-ZN	YES	CAST IRON	
GCO-1	GRADE CLEAN OUT	BOH	ZURN Z1400-ZS-VP	YES	CAST IRON	POLISHED NICKEL BRONZE TOP

PLUMBING EQUIPMENT SCHEDULE

TAG	SERVICE	MAKE AND MODEL	LOCATION	FLOW CAPACITY (GPM)	SIZE	REMARKS
BFP /03-101	DOMESTIC COLD WATER	REDUCED PRESSURE ZONE ASSEMBLY	HVAC PUMP/DOMESTIC WATER PUMP ROOM	VARIES	4"	PROVIDE STRAINERS
WM /03-101	DOMESTIC COLD WATER	BADGER MODMAG 2000	HVAC PUMP/DOMESTIC WATER PUMP ROOM	VARIES	2"	ELECTROMEGNATIC FLOW METER. PROVIDE BAS CONTACTS
WM /03-102	DOMESTIC COLD WATER	BADGER M25	HVAC PUMP/DOMESTIC WATER PUMP ROOM	30	3/4"	POSITIVE DISPLACEMENT METER. PROVIDE BAS CONTACTS
PRV /03-101	DOMESTIC COLD WATER	WATTS LFU5B-Z3 OR EQUAL	HVAC PUMP/DOMESTIC WATER PUMP ROOM	-	3"	SET P(out) = 75 PSI. PROVIDE STRAINERS
ET /03-101	DOMESTIC COLD WATER	WESSELS TXA 35	HVAC PUMP/DOMESTIC WATER PUMP ROOM	-	-	WESSELS THERMO-EXPANSION TANK.
ET /03-102	DOMESTIC COLD WATER	WESSELS TXA 1200	HVAC PUMP/DOMESTIC WATER PUMP ROOM	-	-	WESSELS EXPANSION TANK.
RPBP /03-101	MECHANICAL MAKE-UP	WATTS LF 909 OR EQUAL	HVAC PUMP/DOMESTIC WATER PUMP ROOM	-	1"	

WATER HAMMER ARRESTER SCHEDULE

PDI UNIT (SEE PDI-WH201 FOR DETAILS)	AA	A	B	C	D	E	F
FIXTURE UNITS	1-3	1-11	12-32	33-60	61-113	114-154	155-330

BALANCING VALVE SCHEDULE

TAG	EQUIPMENT	MAKE	MODEL	RETURN TEMPERATURE (°F)	REMARKS
BB-1	HOT WATER BALANCING VALVE	THERM OMEGA TECH	CSUAS-CV	120	INSTALLED ON HOT WATER SUB LOOPS
BB-2	HOT WATER BALANCING VALVE	BELL & GOSSET	CB-LF	120	INSTALLED ON HOT WATER MAIN LOOPS

PUMP SCHEDULE

TAG	DESCRIPTION	MAKE & MODEL	LOCATION	CAPACITY		ELECTRICAL DATA					REMARKS
				GPM	HEAD, FT.	HP	VOLT	PHASE	AMPS	RPM	
SP /03-001	SUMP PUMP	ZOELLER 651-G651	BASEMENT	178	30	5	460	3	7.6	-	1750 RPM DUPLEX PUMP SYSTEM. DUTY/LAG, CONNECT TO EMERGENCY POWER. DISCHARGE: 4"FLANGED CONNECTION
SP /03-002	ELEVATOR SUMP PUMP	ZOELLER 153	ELEVATOR SHAFT	50	21	1/2	120	1	10.5	-	-
SP /03-003	ELEVATOR SUMP PUMP	ZOELLER 153	ELEVATOR SHAFT	50	21	1/2	120	1	10.5	-	-
SP /03-004	ELEVATOR SUMP PUMP	ZOELLER 153	ELEVATOR SHAFT	50	21	1/2	120	1	10.5	-	-
SP /03-005	ELEVATOR SUMP PUMP	ZOELLER 153	ELEVATOR SHAFT	50	21	1/2	120	1	10.5	-	-
SP /03-006	ELEVATOR SUMP PUMP	ZOELLER 153	ELEVATOR SHAFT	50	21	1/2	120	1	10.5	-	-
SEP /03-001	SEWAGE EJECTOR PUMP	MYER VS20-43-35	BASEMENT	30	100	2	460	3	4.2	-	3450 RPM DUPLEX PUMP SYSTEM. DUTY/LAG, CONNECT TO EMERGENCY POWER. DISCHARGE: 3" FLANGED CONNECTION

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	FIXTURE UNIT		MINIMUM BRANCH SIZE							LOCATION	FLOW/FLUSH RATE	REMARKS
		DFU	WSFU	INDIRECT WASTE	WASTE	VENT	FILTERED CW	CW	HW	TEMPERED WATER (105°F)			
WC-1	WATER CLOSET	4	10	-	4"	2"	-	1-1/2"	-	-	RESTROOM	1.28 GPF	TOTO FLOOR MOUNTEDED 1.28GPF. ELONGATED BOWL. PROVIDE WITH TOTO ECOPOWER TET6GA32#CP FLUSH VALVE. INSTALL PER ADA HEIGHT REQUIREMENT
WC-2	WATER CLOSET	4	10	-	4"	2"	-	1-1/2"	-	-	RESTROOM	1.28 GPF	TOTO FLOOR MOUNTEDED 1.28GPF. ELONGATED BOWL. PROVIDE WITH TOTO ECOPOWER TET6GA32#CP FLUSH VALVE
UR-1	URINAL	4	5	-	2"	2"	-	3/4"	-	-	RESTROOM	0.125 GPF	AMERICAN STANDARD WALL MOUNTED 0.125GPF. PROVIDE WITH TOTO ECOPOWER TEU1GAXX#CP. SENSOR OPERATED FLUSH VALVE. INSTALL PER ADA HEIGHT REQUIREMENT
UR-2	URINAL	4	5	-	2"	2"	-	3/4"	-	-	RESTROOM	0.125 GPF	AMERICAN STANDARD WALL MOUNTED 0.125GPF. PROVIDE WITH TOTO ECOPOWER TEU1GAXX#CP. SENSOR OPERATED FLUSH VALVE
L-1	LAVATORY	1	1.5	-	2"	1-1/2"	-	1/2"	1/2"	-	COMMUNAL RESTROOM	0.35 GPM	SPLASHLABS RIBBON TSL R.3SET. SPLASH LABS TROUGH SINK
L-2	LAVATORY	1	1.5	-	2"	1-1/2"	-	1/2"	1/2"	-	UNIVERSAL RESTROOM	0.35 GPM	TOTO OBERON S SINGLE-HANDLE FAUCET MODEL: TL363SD403-POLISHED CHROME, BOBRICK MANUAL SOAP DISPENSER B-822-POLISHED CHROME. SPLASH LABS MONOLITH TROUGH SINK
SK-2	SINK	2	3	-	2"	1-1/2"	-	1/2"	1/2"	-	MOTHERS ROOM	1.5 GPM	KOHLER K-2330 VITREOUS CHINA UNDER-MOUNT SINK . FAUCET: MOEN 7565E PULLDOWN MOTION SENSE HIGH ARC FAUCET. INSTALL PER ADA HEIGHT.
SK-2A	SINK	2	3	-	2"	1-1/2"	-	1/2"	1/2"	-	MOTHERS ROOM	1.5 GPM	KOHLER K-2330 VITREOUS CHINA UNDER-MOUNT SINK . FAUCET: MOEN 7565E PULLDOWN MOTION SENSE HIGH ARC FAUCET. INSTALL PER ADA HEIGHT. INSTALL WITH JAY R SMITH 9200-19 CONDENSATE TRAP
SH-1	SHOWER	3	3	-	-	-	-	1/2"	1/2"	-	BASEMENT	1.75 GPM	DELTA T14232 WALL MOUNTED CHROME SHOWER. PROVIDE WITH ASSE 1016 TEMPERATURE MIXING VALVE
DF-1	DRINKING FOUNTAIN	0.5	0.25	-	2"	2"	-	1/2"	-	-	LEVEL 01	-	ELKAY WALL MOUNTED LMABFBWSLK STAINLESS STEEL DRINKING FOUNTAIN WITH VISUAL FILTER MONITOR.
BF-1	BOTTLE FILLER	0.5	0.25	-	2"	2"	-	1/2"	-	-	VARIES	-	ELKAY WALL MOUNTED LBWDC208WHC BOTTLE FILLING STATION INSTALLED WITH EC16GRN ELKAY REMOTE CHILLER IN PANEL BELOW UNIT.
MS-1	MOP SINK	2	2.25	-	3"	2"	-	3/4"	3/4"	-	JANITOR'S CLOSET	1.5 GPM	24" x 24" MOP RECEPTOR WITH SPEAKMAN COMMANDER SC-5811-RCP, ROUGH CHROME PLATED CAST BRASS, 1/4 TURN CERAMIC CARTRIDGES W/ 4" WRIST HANDLES.
MS-2	MOP SINK	-	2.25	-	-	-	-	3/4"	3/4"	-	TRASH/ RECYCLE	1.5 GPM	T&S B-0655-BTSP SERVICE SINK FAUCET. QUARTER TURN STOP WITH VACUUM BREAKER. POLISHED CHROME FINISH.
EWS-1	EMERGENCY EYE WASH	-	-	-	2"	2"	-	3/4"	3/4"	-	VARIES	-	GUARDIAN G1724 WALL MOUNTED STAINLESS STEEL EYE/FACE WASH. INCLUDE G3600LF THERMOSTATIC MIXING VALVE
HB-1	HOSE BIBB	-	1	-	-	-	-	3/4"	-	-	VARIES	-	JAY R SMITH #5509QT. NON-FREEZE BOX HYDRANT. PROVIDE RPBP-1 MINIMUM 18" AHEAD OF HOSE BIBB. FOR LEVEL 01 MAINTENANCE HOSE BIBBS PROVIDE SHUT-OFF VALVE FOR WINTERIZING
HB-2	HOSE BIBB	-	1	-	-	-	-	3/4"	-	-	ROOF	-	JAY R SMITH #5906QT. NON-FREEZE ROOF HYDRANT. PROVIDE RPBP-1 MINIMUM 18" AHEAD OF HOSE BIBB
HB-3	HOSE BIBB	-	1	-	-	-	-	3/4"	-	-	RESTROOMS	-	JAY R SMITH #5673
HB-4	HOSE BIBB	-	1	-	-	-	-	3/4"	-	-	VARIES	-	JAY R SMITH #5609QT-SAP
HB-5	HOSE BIBB	-	1	-	-	-	-	3/4"	-	-	TERRACE	-	WOODFORD Y95 FREEZE RESISTANT YARD HYDRANT. SET BURY DEPTH TO 3'. PLUG 1/8" DRAIN HOLE
FD-1	FLOOR DRAIN	6/4	-	-	3"/2"	2"	-	-	-	-	VARIES	-	JAY R SMITH 2005Y-A, DUCO CAST IRON BODY. INSTALL WITH JAY R SMITH 2692 QUAD CLOSE TRAP SEAL.
FD-2	FLOOR DRAIN	6/4	-	-	3"/2"	2"	-	-	-	-	VARIES	-	JAY R SMITH 2131Y, MEDIUM DUTY DUCO CAST IRON BODY WITH CAST IRON BAR GRATE. INSTALL WITH JAY R SMITH 2692 QUAD CLOSE TRAP SEAL.
ED-1	EQUIPMENT DRAIN	4	-	-	2"	2"	-	-	-	-	VARIES	-	JAY R SMITH 3960Y, ROOF RECEPTOR MEDIUM DEPTH INDIRECT WASTE DRAIN.
FS-1	FLOOR SINK	6/4	-	-	3"/2"	2"	-	-	-	-	VARIES	-	JAY R SMITH 3160Y, ACID RESISTANT COATED FLOOR & INDIRECT WASTE DRAIN, 12-1/2" SQUARE TOP, STAINLESS STEEL AND GRATE, DOME BOTTOM STRAINER, 10" DEEP RECEPTORS, INSTALL WITH TRAP SEAL. IF APPLICABLE, REFERENCE KITCHEN CONSULTANT DRAWINGS FOR GRATE TYPE.
TD-1	TRENCH DRAIN	6	-	-	3"	2"	-	-	-	-	VARIES	-	JAY R SMITH 9660 SERIES, 6" WIDE MODULAR STAINLESS STEEL. 3" OUTLET WITH DOME BOTTOM STRAINER. LIGHT DUTY GRATING 9870-445-SSADA STAINLESS STEEL
TD-2	TRENCH DRAIN	-	-	-	2"	2"	-	-	-	-	RESTROOMS	-	JAY R SMITH 9667 STAINLESS STEEL SHOWER DRAIN WITH LOOSE SET STAINLESS STEEL PREFORATED GRATE

PIPE MATERIAL SCHEDULE

SERVICE	MATERIAL										INSULATION (Y/N)	MAX. OPERATING PRESSURE (PSI)	REMARKS
	COPPER TYPE 'L'	COPPER TYPE 'M'	COPPER TYPE 'K' (BRAZED JOINTS)	CAST IRON, NO-HUB (WITH CWV FITTINGS AND HDUIT SS COUPLINGS)	CAST IRON, HUB AND SPIGOT	SCHEDULE 40 PVC	SCHEDULE 40 BLACK STEEL	SCHEDULE 40 GALVANIZED	UNPIGMENTED POLYPROPYLENE WITH GLASS FIBER SUPPORT TROUGH	ASTM A-53 WELDED BLACK STEEL SCH40 PRIMARY PIPE INSIDE FX-DWG PIPE SCH 40 WELDED BLACK STEEL SCH 40 SECONDARY CONTAINMENT			
DOMESTIC COLD WATER	✓										N	--	--
DOMESTIC HOT WATER	✓										Y*	--	--
STORM DRAIN				✓							Y	--	--
SANITARY WASTE AND VENT				✓							N	GRAVITY	SLOPED IN ACCORDANCE TO TABLE 704.1 OF IPC.

NOTE : * WHERE INSULATION IS REQUIRED, IT SHALL COMPLY WITH THE REQUIREMENTS OF THE 2006 ARKANSAS PLUMBING CODE FOR THICKNESS AND PERFORMANCE.

WATER HEATER SCHEDULE

TAG	DESCRIPTION	LOCATION	MAKE & MODEL	ELECTRICAL DATA					REMARKS
				KW	HP	AMPS	PH	V	
WH /03-101	ELECTRIC WATER HEATER	HVAC PUMP / DOMESTIC WATER PUMP ROOM	AO SMITH DVE-400	18	-	22	3	480	400 GALLON CAPACITY. PLUMB T&P VALVE DISCHARGE TO NEARBY DRAIN

THERMOSTATIC MIXING VALVE SCHEDULE

TAG	EQUIPMENT	MAKE	MODEL	RECIRCULATION PUMP		LOCATION	OUTPUT (°F)	MAX PRESSURE DROP (PSI)	FLOW CAPACITY (GPM)	REMARKS
				FLOW (GPM)	TDH					
TMV /03-101	HIGH-LOW THERMOSTATIC MIXING VALVE	BRADLEY NAVIGATOR	NRS-8	5	25	HVAC PUMP /DOMESTIC WATER PUMP ROOM	120	15	36	FOR BASE BUILDING HOT WATER LOAD. PROVIDE ASSEMBLY COMPLETE WITH BELL & GOSSET PL-36 RECIRCULATION PUMP AND AQUASTAT.

AUTOMATIC FUEL OIL FILL PORT SCHEDULE

TAG	DESCRIPTION	MAKE & MODEL	LOCATION	SERVICE	ELECTRICAL DATA				APPROX. OPERATING WEIGHT (LBS)	REMARKS
					HP	VOLT	PHASE	EMGY. POWER		
FFP /03-101	AUTOMATIC FUEL FILL PORT	SIMPLEX FP-2	SITE	FILL PORT FOR GENERATOR BELLY TANKS	-	120	1	Y	125	DUEL PORT BOTTOM OUTLET, LEG STAND ASSEMBLY PACKAGED SYSTEM, AUTOMATIC FUEL FILL PORT CABINET FOR FILLING OF GENERATOR BELLY TANKS. ALARM TO ALERT OPERATOR AT THE 90% BELLY TANK LEVEL WITH FILLING OPERATION LOCKED OUT AT 90% LEAK DETECTION CIRCUIT TO PREVENT FILLING OF LEAKING TANKS. VISUAL AND AUDIBLE ALARMS AND CONTINUOUS LEVEL INDICATION TO BE PROVIDED. COMPLETE WITH WEATHERPROOF LOCKABLE BOX WITH 7.5 GALLON SPILL CONTAINMENT SUMP, GROUNDING STUD, TANK SELECTOR SWITCH, QUICK DISCONNECT HOSE COUPLING, CHECK VALVE. HAND PUMP FOR SPILL CONTAINMENT AND ELECTRICALLY OPERATED SHUT-OFF VALVES FOR EACH TANK FILL LINE. APPROXIMATE UNIT DIMENSIONS: 30"W x 26"H x 18" DEEP. INSTALL LEG STAND ON CONCRETE PAD.

REVIEWED FOR CODE COMPLIANCE
CODE ENFORCEMENT
06/05/2025
BY
SIGNATURE - LICENSED NO.

WALMART CAMPUS

Walmart

BENTONVILLE, AR

FACILITY # XXXXX-XXX (FOUNDATION)

FACILITY # 30003-500 (SUPERSTRUCTURE)

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KEY PLAN



Date	Description
09.19.2019	50% SCHEMATIC DESIGN
11.07.2019	SCHEMATIC DESIGN
03.26.2020	50% DESIGN DEVELOPMENT
05.21.2020	50% DESIGN DEVELOPMENT - TI WORKPLACE
06.18.2020	DESIGN DEVELOPMENT - CORE & SHELL
06.18.2020	50% DESIGN DEVELOPMENT - TI AMENITY
08.20.2020	DESIGN DEVELOPMENT - TI
10.08.2020	CD PROGRESS OF03, OF06
11.20.2020	ISSUE FOR GC RFP AND IGMP
11.23.2020	ADH BUILDING SUBMISSIONS
01.28.2021	ISSUE FOR PERMIT
11.18.2021	ISSUE FOR CONSTRUCTION
2 06.30.2022	ASI #002
5 03.30.2023	ASI #005
21 05.29.2025	ASI #021

Seal / Signature

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 19518
RAJ DASWANI

Project Name

OFFICE BUILDING 03 (OF03-Z01)

Project Number

262880

Description

PLUMBING SCHEDULES

Scale

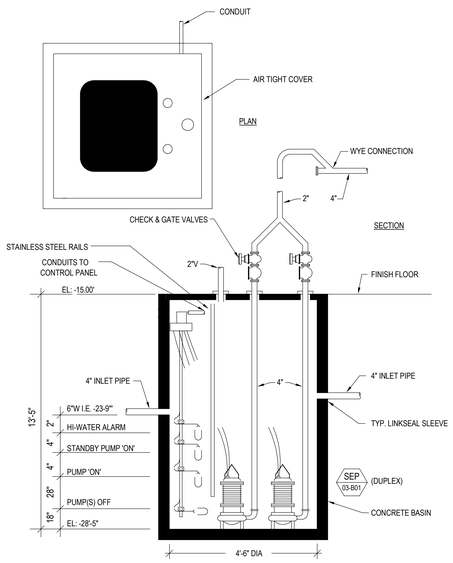
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ID	VOLUME	SHEET
OF03-01	V2	P06.101

City of Bentonville Project No. COM20-0058

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DUPLEX SEWAGE EJECTOR PUMP DETAIL

SCALE: NTS

REF: /

01

DUPLEX SUMP PUMP DETAIL

SCALE: NTS

REF: /

02

WALMART CAMPUS

Walmart

BENTONVILLE, AR

FACILITY # XXXXX-XXX (FOUNDATION)

FACILITY # XXXXX-XXX (SUPERSTRUCTURE)

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KEY PLAN



△	Date	Description
	06.18.2020	DESIGN DEVELOPMENT - CORE & SHELL
	06.18.2020	50% DESIGN DEVELOPMENT - TI AMENITY
	11.18.2021	ISSUE FOR CONSTRUCTION

Seal / Signature



Project Name

OFFICE BUILDING 03
(OF03-Z01)

Project Number

272243

Description

PLUMBING DETAILS

Scale

NOT TO SCALE

ID	VOLUME	SHEET
OF03-Z01	V2	P07.101

City of Bentonville Project No. COM20-0058

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