

600 W FRONT STREET

BOISE, IDAHO

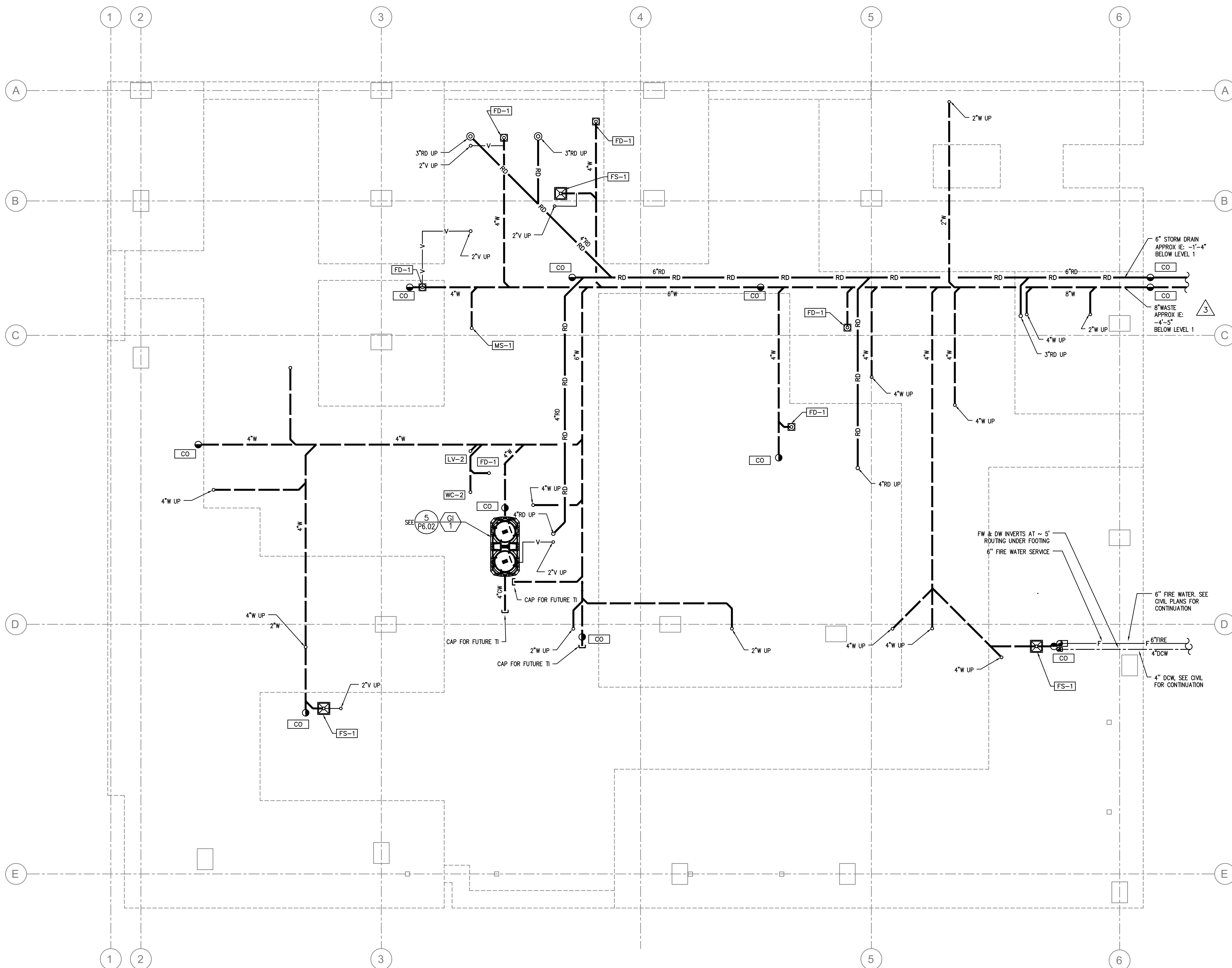
JOB NO. 18-044.00

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6-18-2019



Expires May 31, 2021



SYSTEM COMMISSIONING: IECC SECTION C408

CONTRACTOR RESPONSIBILITIES

- THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL THE REQUIREMENTS OF IECC SECTION 408.
- THE CONTRACTOR SHALL HIRE AND UTILIZE AN APPROVED CX AGENT
- THE CX AGENT SHALL
 - PREPARE A CX PLAN
 - OVERSEE THE TAB MEASUREMENTS
 - CONDUCT THE PR-FUNCTIONAL & FUNCTIONAL TESTS
 - PREPARE THE PRELIMINARY CX REPORT
 - REVIEW THE TAB REPORT
 - REVIEW THE O&M'S
 - PREPARE THE SYSTEMS MANUALS

SYSTEMS REQUIRED TO BE COMMISSIONED

- SERVICE WATER HEATERS
- MIXING VALVES & RECIRC SYSTEMS
- ROOFTOP UNIT - HALLWAY VENTILATION
- SPLIT SYSTEM FAN COILS
- PTHP'S (SAMPLE SELECTION).
- DWELLING UNIT EXHAUST FANS (SAMPLE SELECTION).
- LIGHTING CONTROL SYSTEMS
- OCCUPANCY SENSORS
- EMERGENCY POWER SYSTEMS (GENERATOR)
- THERMOSTAT OPERATIONS AND SET POINTS
- FIRE PIT 7 BBQ TIMERS AND AUTO-SHUT OFF
- FIRE PUMP AND DOMESTIC WATER BOOSTER PUMP.

CONSTRUCTION SET

02.11.2020

issue:	date:
50% SD	01.25.2019
100% SD	03.04.2019
100% DD	04.26.2019
20% CD	05.14.2019
PERMIT SET	08.08.2019
GNP SET	10.04.2019
PERMIT REV 1	10.18.2019
ADD 01	PERMIT REV 2
ADD 02	11.22.2019
PERMIT REV 3	ADD 03
ADD 03	PERMIT REV 4
PERMIT REV 4	02.04.2020
CONSTRUCTION SET	02.11.2020

revision:	date:
1 REV 01	10.04.2019
2 REV 02	10.18.2019
3 REV 03	11.22.2019

1 UNDERSLAB PLUMBING PLAN
SCALE: 1/4"=1'-0"

RISER DETAILS:
SEE SHEET **X** FOR RISER DIAGRAMS
P300
= RISER NUMBER

GENERAL NOTES:
SEE SHEET P1.01 FOR GENERAL NOTES

- KEY NOTES:**
- A** - ROUTE CONDENSATE PIPING INSIDE WALL FURRING. SLOPE TO DRAIN.
 - B** - ROUTE CONDENSATE PIPING EXPOSED ON WALL OR COLUMN TO FLOOR SINK/DRAIN.
 - C** - OFFSET PIPING AS REQUIRED BETWEEN FLOORS.
 - D** - PROVIDE HOSE BIBB AT APPROX 24" AFF. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL.
 - E** - PROVIDE HEAT TRACE/FREEZE PROTECTION ON ALL PIPING OUTSIDE CONDITIONED SPACE.
 - F** - PROVIDE NPW TO PLANTERS. CAP FOR FUTURE CONNECTION BY LANDSCAPE.
 - G** - OFFSET VENT PIPING BELOW ROOF.
 - H** - PROVIDE SHUT OFF VALVE AND CAP FOR FUTURE T.I.
 - J** - PROVIDE W/ SHUT OFF VALVE. COORDINATE NPW PIPING WITH LANDSCAPE.

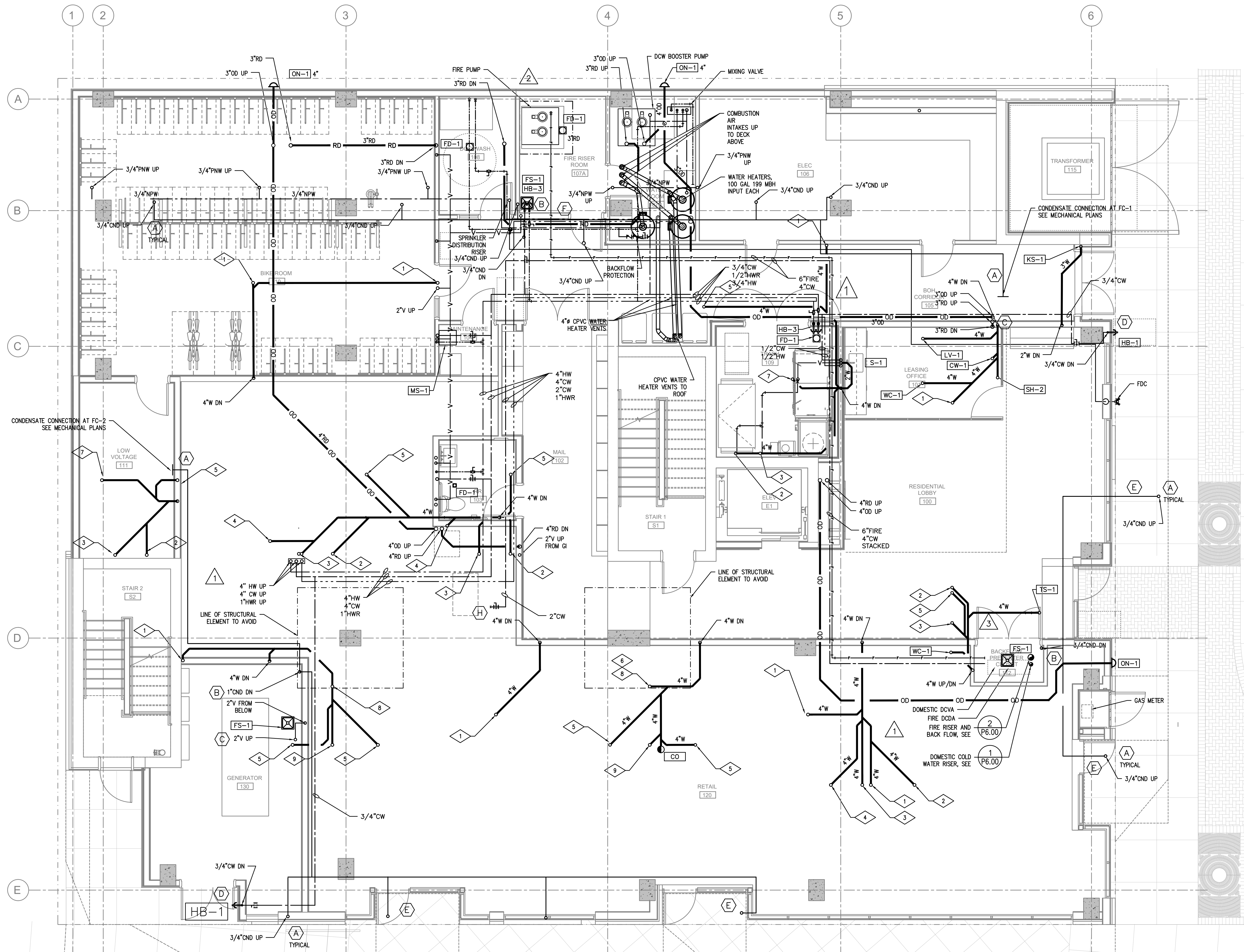
UNDERSLAB FLOOR PLAN

sheet: **P1.00**

CONSTRUCTION SET

Issue	Date
50% SD	01.25.2019
100% SD	03.04.2019
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PERMIT SET	08.08.2019
CMF SET	10.04.2019
PERMIT REV 1	10.18.2019
ADD 01	11.22.2019
PERMIT REV 2	11.22.2019
ADD 02	02.04.2020
ADD 03	02.04.2020
PERMIT REV 4	02.11.2020
CONSTRUCTION SET	02.11.2020

Revision	Date
1 REV 01	10.04.2019
2 REV 02	10.18.2019
3 REV 03	11.22.2019



GENERAL NOTES:

DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS- PRODUCING FIXTURE. EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES

HEAT TRACE (FREEZE PROTECTION) ALL PIPING SUBJECTED TO FREEZING CONDITIONS. ALL HEAT TRACED PIPE TO BE INSULATED.

HEAT TRACE WASTE TRAPS, INSULATE WASTE PIPING EXPOSED TO FREEZING CONDITIONS

ROUTE ALL HVAC UNIT CONDENSATE DRAINS TO AN APPROVED LOCATION (OPTIONS LISTED BELOW)

- ROUTE TO CLOTHES WASHER BOX VIA TOP DISCHARGE - IPS WATER TITE MODEL W8900 OR EQUAL.
- ROUTE ALL CONDENSATES DOWN IN WALLS IN COMMON DRAIN SYSTEM AND ROUTE TO HUB DRAINS - CONTRACTOR TO SIZE DRAIN SYSTEM BASED ON NUMBER OF CONNECTED UNITS.
- PROVIDE CONDENSATE PUMPS ON ALL UNITS THAT ARE NOT GRAVITY DRAINED.

ROUTE VENTS FROM FLOOR DRAINS/SINKS BELOW SLAB AND UP ON/IN A WALL TO VENT STACKS ABOVE. (ROUTE INDIVIDUAL VENTS UNTIL ABOVE FLOOR LINE OF FIXTURE).

1 LEVEL 1 PLUMBING PLAN
SCALE: 1/4"=1'-0"

RISER DETAILS:

SEE SHEET X FOR RISER DIAGRAMS
P300
= RISER NUMBER

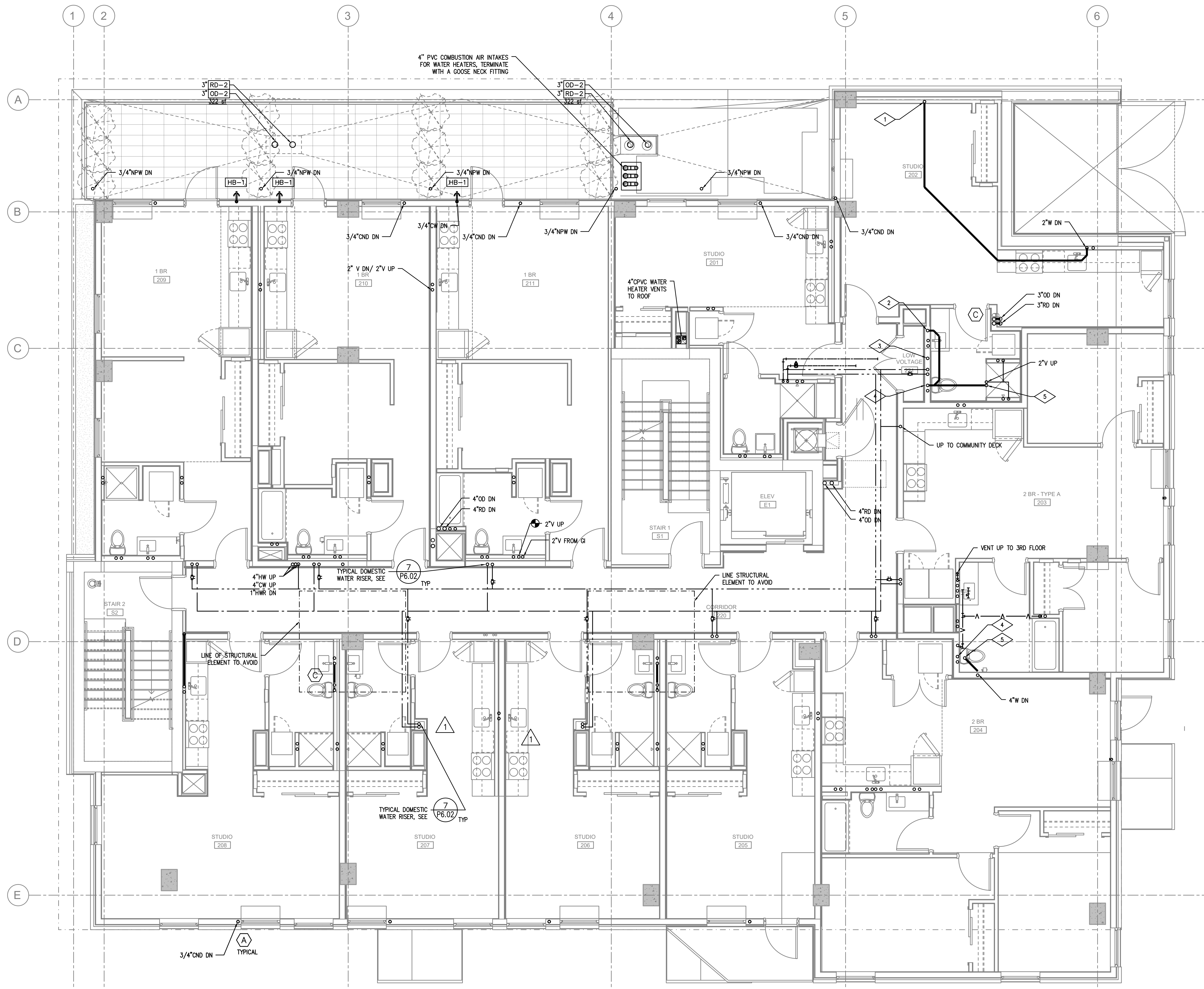
KEY NOTES:

- (A) - ROUTE CONDENSATE PIPING INSIDE WALL FURRING. SLOPE TO DRAIN.
- (B) - ROUTE CONDENSATE PIPING EXPOSED ON WALL OR COLUMN TO FLOOR SINK/DRAIN.
- (C) - OFFSET PIPING AS REQUIRED BETWEEN FLOORS.
- (D) - PROVIDE HOSE BIBB AT APPROX 24" AFF. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL.
- (E) - PROVIDE HEAT TRACE/FREEZE PROTECTION ON ALL PIPING OUTSIDE CONDITIONED SPACE.
- (F) - PROVIDE NPW TO PLANTERS. CAP FOR FUTURE CONNECTION BY LANDSCAPE.
- (G) - OFFSET VENT PIPING BELOW ROOF.
- (H) - PROVIDE SHUT OFF VALVE AND CAP FOR FUTURE T.I.
- (J) - PROVIDE W/ SHUT OFF VALVE. COORDINATE NPW PIPING WITH LANDSCAPE.

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PERMIT REV 2		11.22.2019
ADD 02		11.22.2019
PERMIT REV 3		02.04.2020
ADD 03		02.04.2020
PERMIT REV 4		02.11.2020
CONSTRUCTION SET		02.11.2020

revision:	date:
1 REV 01	10.04.2019
2 REV 02	10.18.2019
3 REV 03	11.22.2019



GENERAL NOTES:
SEE SHEET P1.01 FOR GENERAL NOTES

1 LEVEL 2 PLUMBING PLAN
P1.02 SCALE: 1/4"=1'-0"

RISER DETAILS:
SEE SHEET X P300 FOR RISER DIAGRAMS
◆ = RISER NUMBER

KEY NOTES:

- (A) - ROUTE CONDENSATE PIPING INSIDE WALL FURRING. SLOPE TO DRAIN.
- (B) - ROUTE CONDENSATE PIPING EXPOSED ON WALL OR COLUMN TO FLOOR SINK/DRAIN.
- (C) - OFFSET PIPING AS REQUIRED BETWEEN FLOORS.
- (D) - PROVIDE HOSE BIBB AT APPROX 24" AFF. COORDINATE EXACT HEIGHT ND LOCATION WITH ARCHITECTURAL.
- (E) - PROVIDE HEAT TRACE/FREEZE PROTECTION ON ALL PIPING OUTSIDE CONDITIONED SPACE.
- (F) - PROVIDE NPW TO PLANTERS. CAP FOR FUTURE CONNECTION BY LANDSCAPE.
- (G) - OFFSET VENT PIPING BELOW ROOF.
- (H) - PROVIDE SHUT OFF VALVE AND CAP FOR FUTURE T.I.
- (J) - PROVIDE W/ SHUT OFF VALVE. COORDINATE NPW PIPING WITH LANDSCAPE.

title:
LEVEL 02 FLOOR PLAN

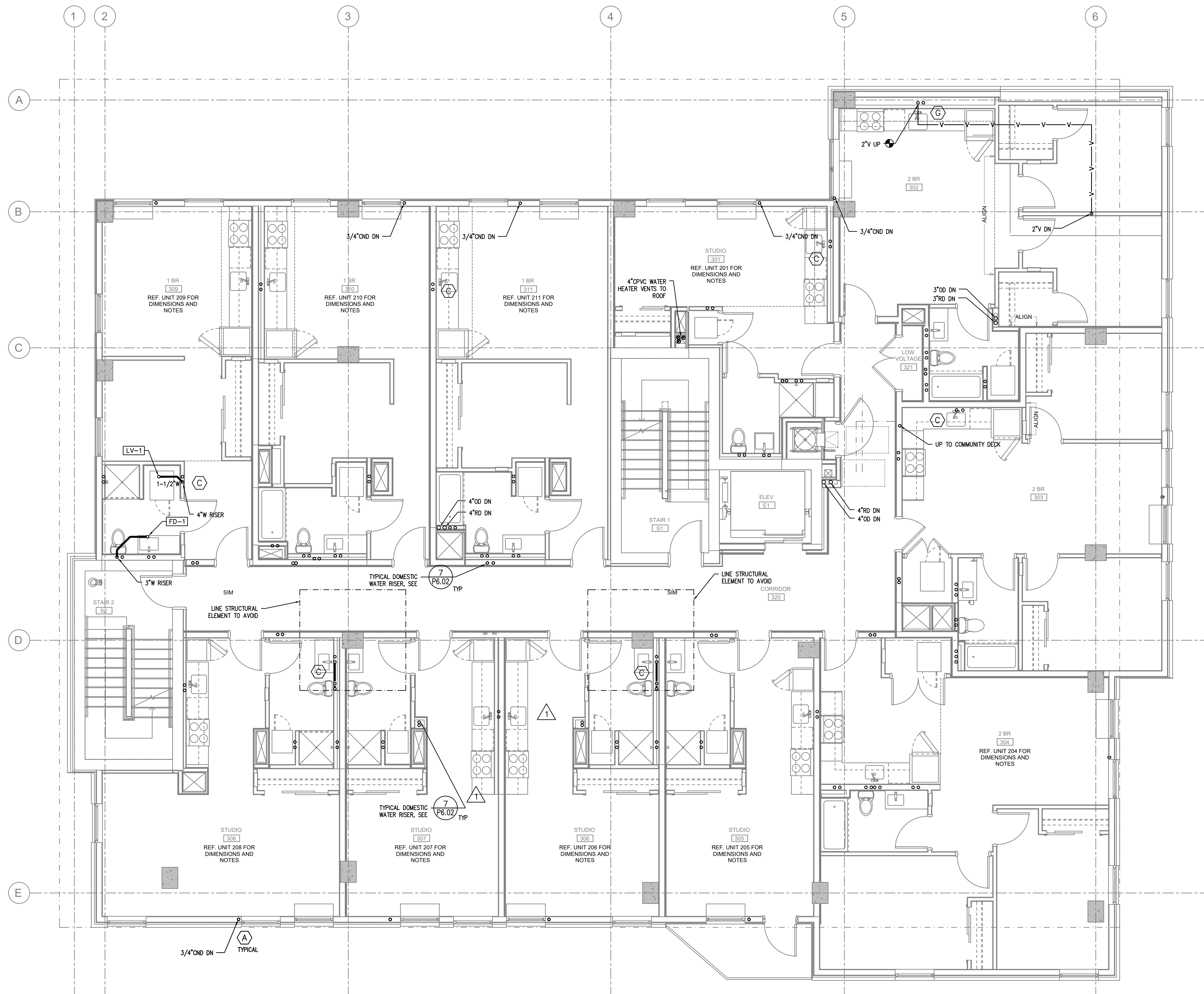
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CONSTRUCTION SET

02.11.2020

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100% DD	04.26.2019
20% CD	05.14.2019
PERMIT SET	08.08.2019
OMP SET	10.04.2019
PERMIT REV 1	10.18.2019
ADD 01	PERMIT REV 2
PERMIT REV 2	11.22.2019
ADD 02	PERMIT REV 3
PERMIT REV 3	02.04.2020
ADD 03	PERMIT REV 4
PERMIT REV 4	02.11.2020
CONSTRUCTION SET	

revision:	date:
1 REV 01	10.04.2019
2 REV 02	10.18.2019
3 REV 03	11.22.2019



GENERAL NOTES:
SEE SHEET P1.01 FOR GENERAL NOTES

1 LEVEL 3 PLUMBING PLAN
P1.03 SCALE: 1/4"=1'-0"

RISER DETAILS:

SEE SHEET X FOR RISER DIAGRAMS
P300
= RISER NUMBER

KEY NOTES:

- (A) - ROUTE CONDENSATE PIPING INSIDE WALL FURRING. SLOPE TO DRAIN.
- (B) - ROUTE CONDENSATE PIPING EXPOSED ON WALL OR COLUMN TO FLOOR SINK/DRAIN.
- (C) - OFFSET PIPING AS REQUIRED BETWEEN FLOORS.
- (D) - PROVIDE HOSE BIBB AT APPROX 24" AFF. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL.
- (E) - PROVIDE HEAT TRACE/FREEZE PROTECTION ON ALL PIPING OUTSIDE CONDITIONED SPACE.
- (F) - PROVIDE NPW TO PLANTERS. CAP FOR FUTURE CONNECTION BY LANDSCAPE.
- (G) - OFFSET VENT PIPING BELOW ROOF.
- (H) - PROVIDE SHUT OFF VALVE AND CAP FOR FUTURE T.I.
- (J) - PROVIDE W/ SHUT OFF VALVE. COORDINATE NPW PIPING WITH LANDSCAPE.

title:

LEVEL 03 FLOOR PLAN

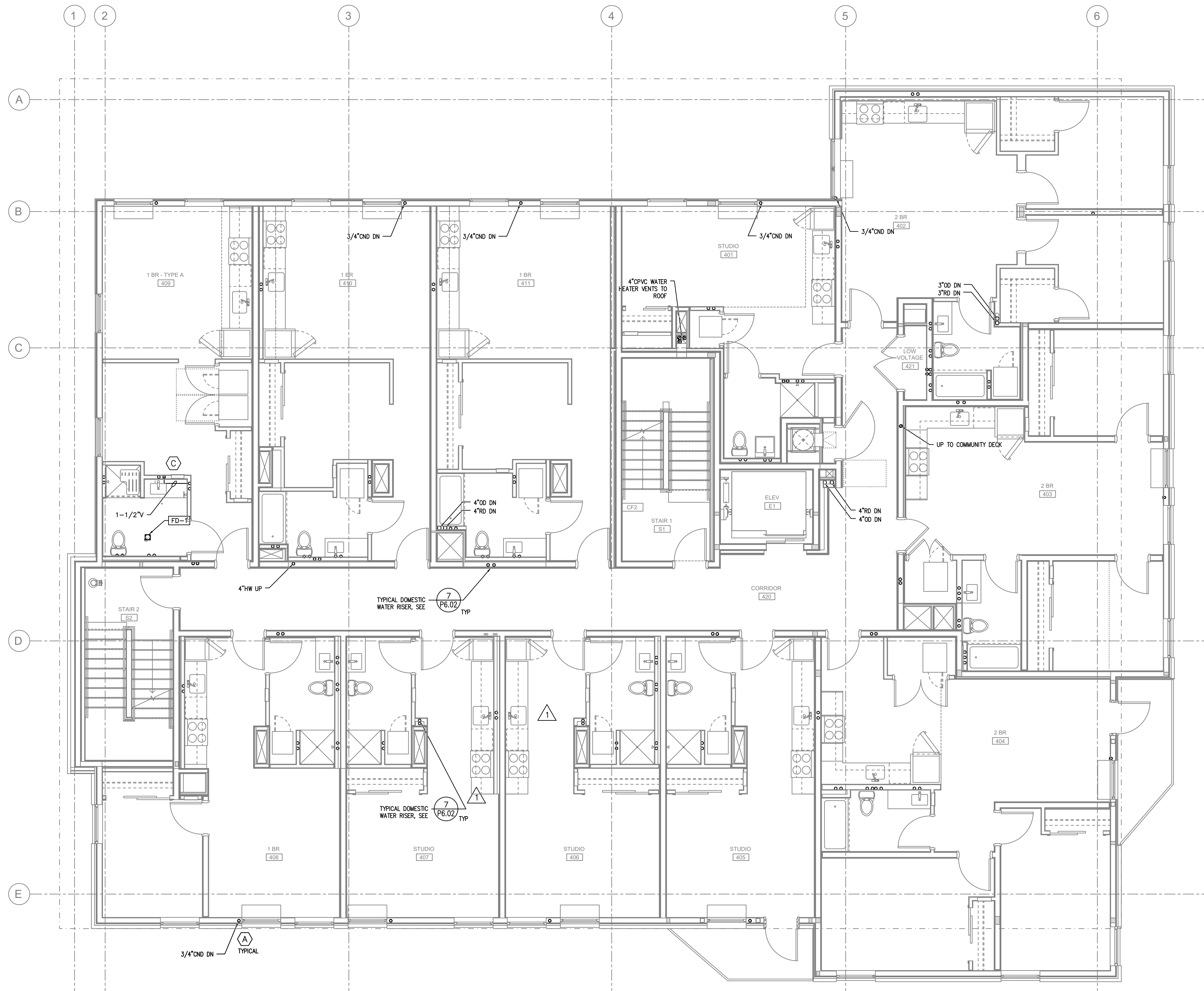
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P1.03

CONSTRUCTION SET

Issue	Date
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100% DD	04.26.2019
20% CD	05.14.2019
PERMIT SET	08.08.2019
OMP SET	10.04.2019
PERMIT REV 1	10.18.2019
PERMIT REV 2	11.22.2019
ADD 02	11.22.2019
PERMIT REV 3	02.04.2020
ADD 03	02.04.2020
PERMIT REV 4	02.11.2020
CONSTRUCTION SET	02.11.2020

Revision	Date
1 REV 01	10.04.2019
2 REV 02	10.18.2019
3 REV 03	11.22.2019



GENERAL NOTES:
SEE SHEET P1.01 FOR GENERAL NOTES

1 LEVEL 4 PLUMBING PLAN
P1.04 SCALE: 1/4"=1'-0"

RISER DETAILS:
SEE SHEET **X** FOR RISER DIAGRAMS
P300
= RISER NUMBER

KEY NOTES:

- (A) - ROUTE CONDENSATE PIPING INSIDE WALL FURRING. SLOPE TO DRAIN.
- (B) - ROUTE CONDENSATE PIPING EXPOSED ON WALL OR COLUMN TO FLOOR SINK/DRAIN.
- (C) - OFFSET PIPING AS REQUIRED BETWEEN FLOORS.
- (D) - PROVIDE HOSE BIBB AT APPROX 24" AFF. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECTURAL.
- (E) - PROVIDE HEAT TRACE/FREEZE PROTECTION ON ALL PIPING OUTSIDE CONDITIONED SPACE.
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- (H) - PROVIDE SHUT OFF VALVE AND CAP FOR FUTURE T.I.
- (J) - PROVIDE W/ SHUT OFF VALVE. COORDINATE NPW PIPING WITH LANDSCAPE.

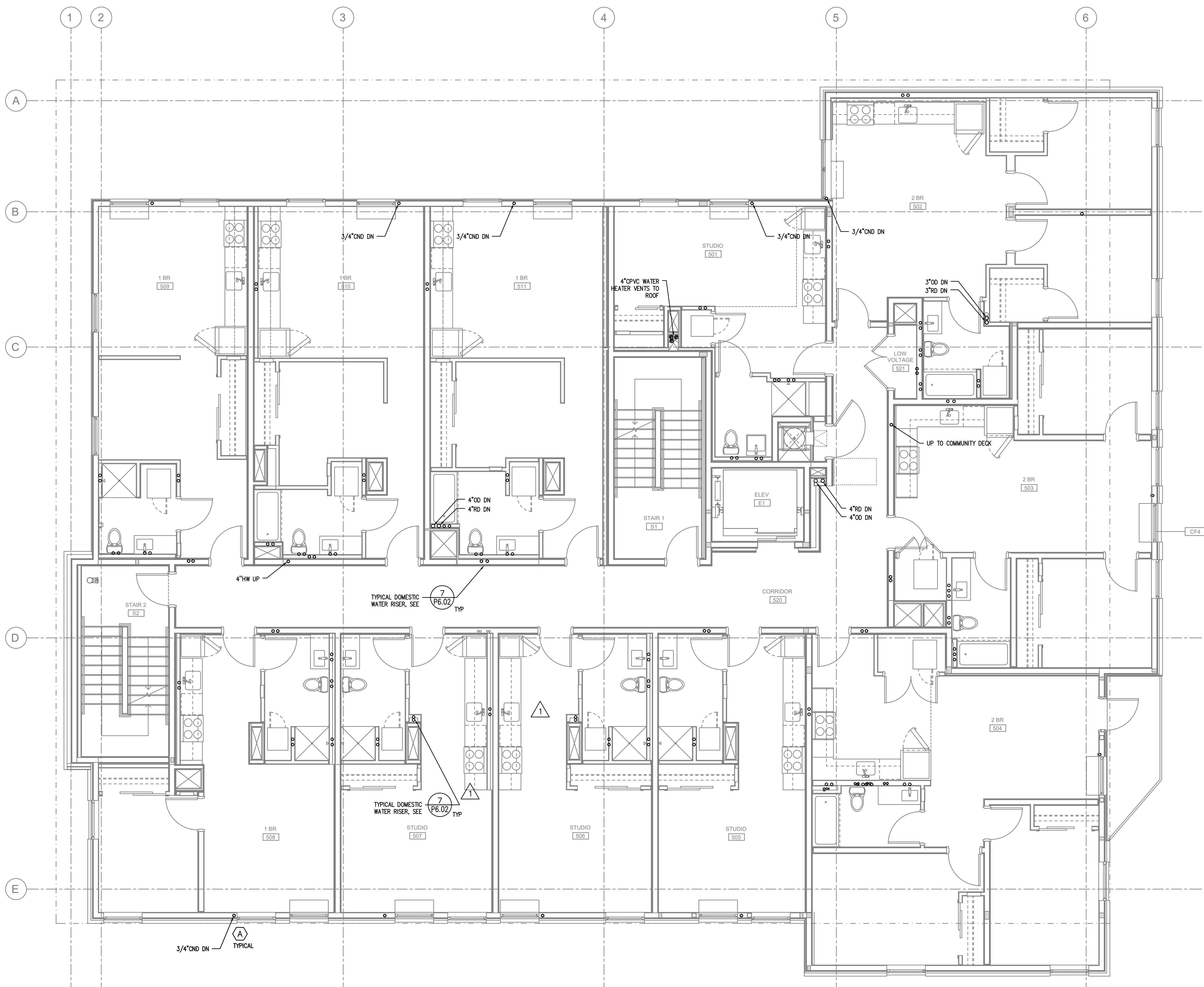
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LEVEL 04 FLOOR PLAN

sheet:
P1.04

CONSTRUCTION SET

Issue	Date
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100% SD	03.04.2019
100% DD	04.26.2019
20% CD	05.14.2019
PERMIT SET	08.08.2019
CMF SET	10.04.2019
PERMIT REV 1	10.18.2019
ADD 01	11.22.2019
PERMIT REV 2	11.22.2019
ADD 02	11.22.2019
PERMIT REV 3	11.22.2019
ADD 03	02.04.2020
PERMIT REV 4	02.04.2020
CONSTRUCTION SET	02.11.2020

Revision	Date
1 REV 01	10.04.2019
2 REV 02	10.18.2019
3 REV 03	11.22.2019



1 LEVEL 5 PLUMBING PLAN
P1.05 SCALE: 1/4"=1'-0"

GENERAL NOTES:
SEE SHEET P1.01 FOR GENERAL NOTES

RISER DETAILS:
SEE SHEET **X P300** FOR RISER DIAGRAMS
① = RISER NUMBER

- KEY NOTES:**
- (A) - ROUTE CONDENSATE PIPING INSIDE WALL FURRING. SLOPE TO DRAIN.
 - (B) - ROUTE CONDENSATE PIPING EXPOSED ON WALL OR COLUMN TO FLOOR SINK/DRAIN.
 - (C) - OFFSET PIPING AS REQUIRED BETWEEN FLOORS.
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 - (G) - OFFSET VENT PIPING BELOW ROOF.
 - (H) - PROVIDE SHUT OFF VALVE AND CAP FOR FUTURE T.I.
 - (J) - PROVIDE W/ SHUT OFF VALVE. COORDINATE NPW PIPING WITH LANDSCAPE.

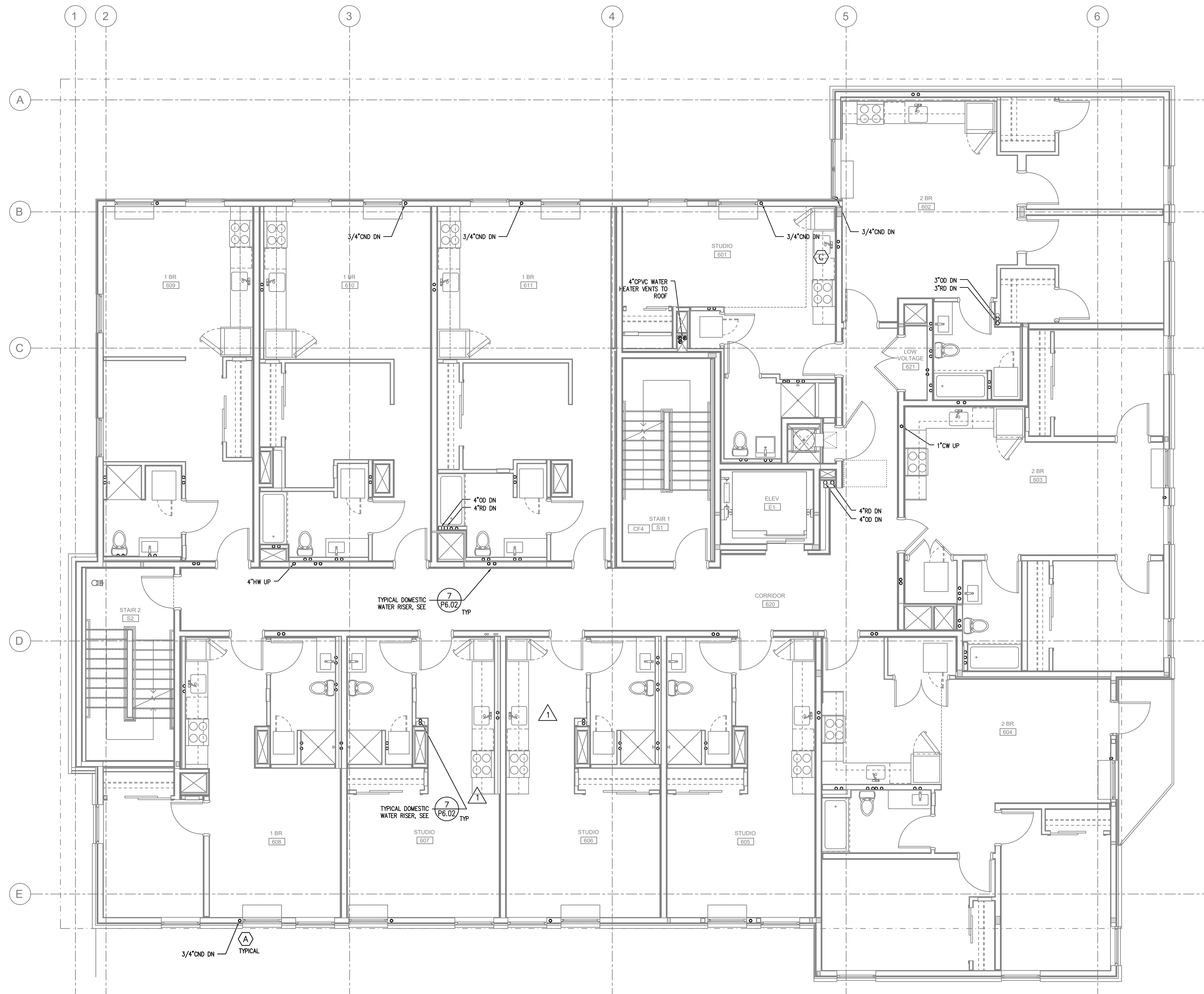
Title:
LEVEL 05 FLOOR PLAN

sheet:
P1.05

CONSTRUCTION SET

Issue	Date
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100% SD	03.04.2019
100% DD	04.26.2019
20% CD	05.14.2019
PERMIT SET	08.08.2019
CMF SET	10.04.2019
PERMIT REV 1	10.18.2019
ADD 01	PERMIT REV 2
ADD 02	11.22.2019
ADD 03	PERMIT REV 3
ADD 03	02.04.2020
PERMIT REV 4	
CONSTRUCTION SET	02.11.2020

revision	date
1 REV 01	10.04.2019
2 REV 02	10.18.2019
3 REV 03	11.22.2019



GENERAL NOTES:
SEE SHEET P1.01 FOR GENERAL NOTES

1 LEVEL 6 PLUMBING PLAN
P1.06 SCALE: 1/4"=1'-0"

RISER DETAILS:

SEE SHEET X FOR RISER DIAGRAMS
P300
◊ = RISER NUMBER

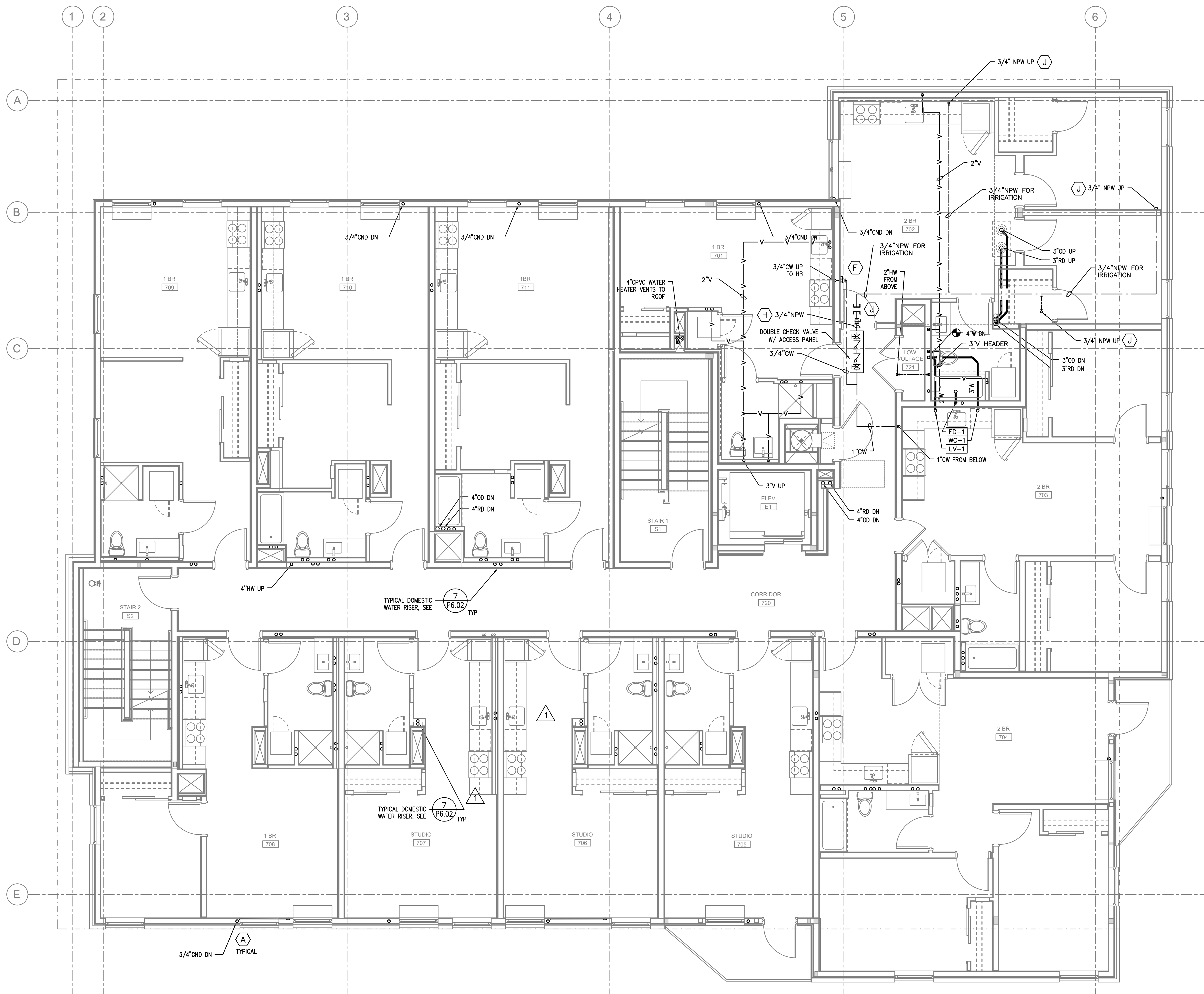
KEY NOTES:

- (A) - ROUTE CONDENSATE PIPING INSIDE WALL FURRING. SLOPE TO DRAIN.
- (B) - ROUTE CONDENSATE PIPING EXPOSED ON WALL OR COLUMN TO FLOOR SINK/DRAIN.
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PERMIT REV 1	10.18.2019
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ADD 02 PERMIT REV 3	11.22.2019
ADD 03 PERMIT REV 4	02.04.2020
CONSTRUCTION SET	02.11.2020

revision	date
1 REV 01	10.04.2019
2 REV 02	10.18.2019
3 REV 03	11.22.2019



1 LEVEL 7 PLUMBING PLAN
P1.07 SCALE: 1/4"=1'-0"

GENERAL NOTES:
SEE SHEET P1.01 FOR GENERAL NOTES

RISER DETAILS:
SEE SHEET **X** FOR RISER DIAGRAMS
P300
= RISER NUMBER

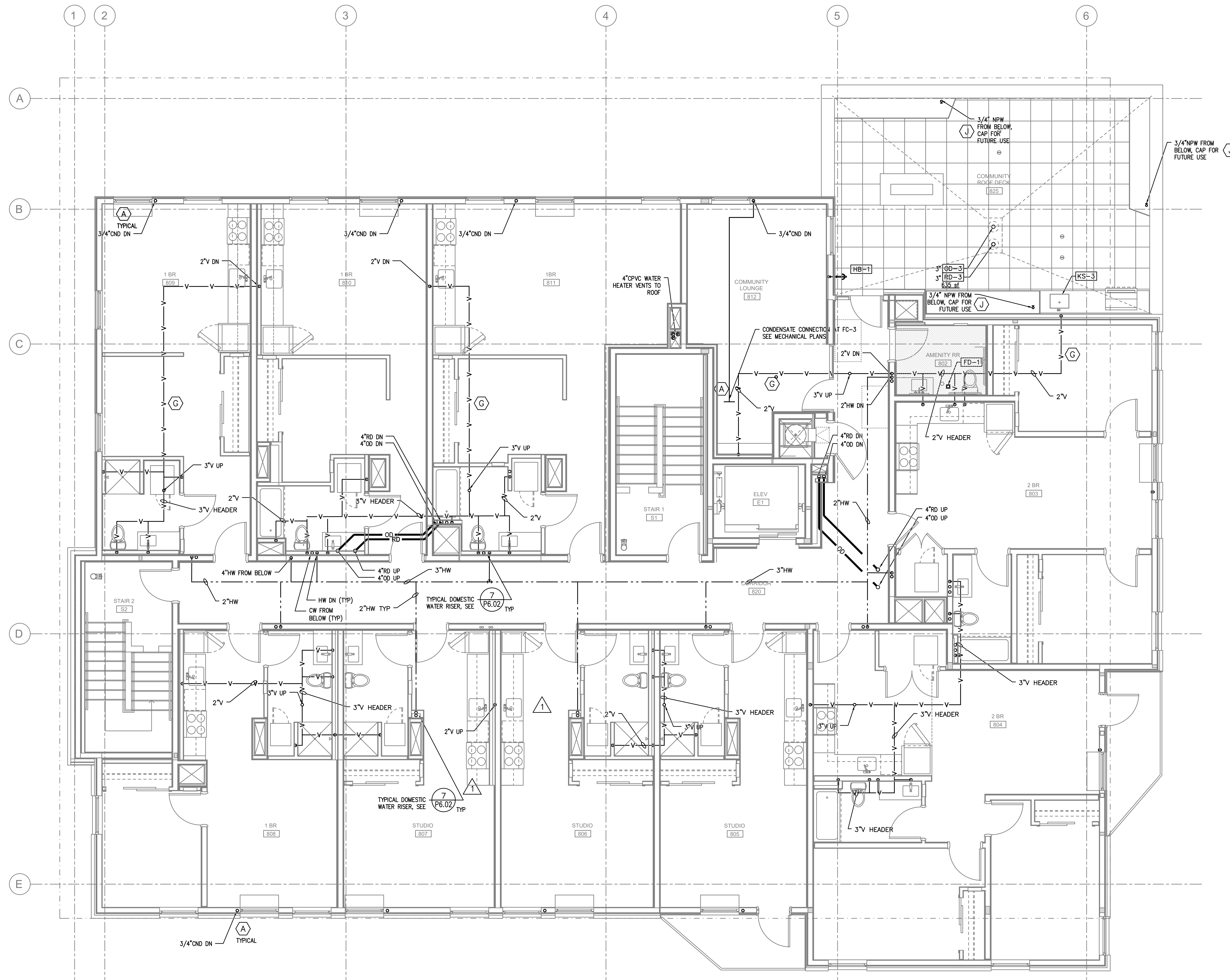
KEY NOTES:

- (A) - ROUTE CONDENSATE PIPING INSIDE WALL FURRING. SLOPE TO DRAIN.
- (B) - ROUTE CONDENSATE PIPING EXPOSED ON WALL OR COLUMN TO FLOOR SINK/DRAIN.
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ADD 02	PERMIT REV 3
ADD 03	PERMIT REV 4
CONSTRUCTION SET	02.11.2020

Revision	Date
1 REV 01	10.04.2019
2 REV 02	10.18.2019
3 REV 03	11.22.2019



1 LEVEL 8 PLUMBING PLAN
P1.08 SCALE: 1/4"=1'-0"

GENERAL NOTES:
SEE SHEET P1.01 FOR GENERAL NOTES

RISER DETAILS:
SEE SHEET P300 FOR RISER DIAGRAMS
◊ = RISER NUMBER

KEY NOTES:

- (A) - ROUTE CONDENSATE PIPING INSIDE WALL FURRING. SLOPE TO DRAIN.
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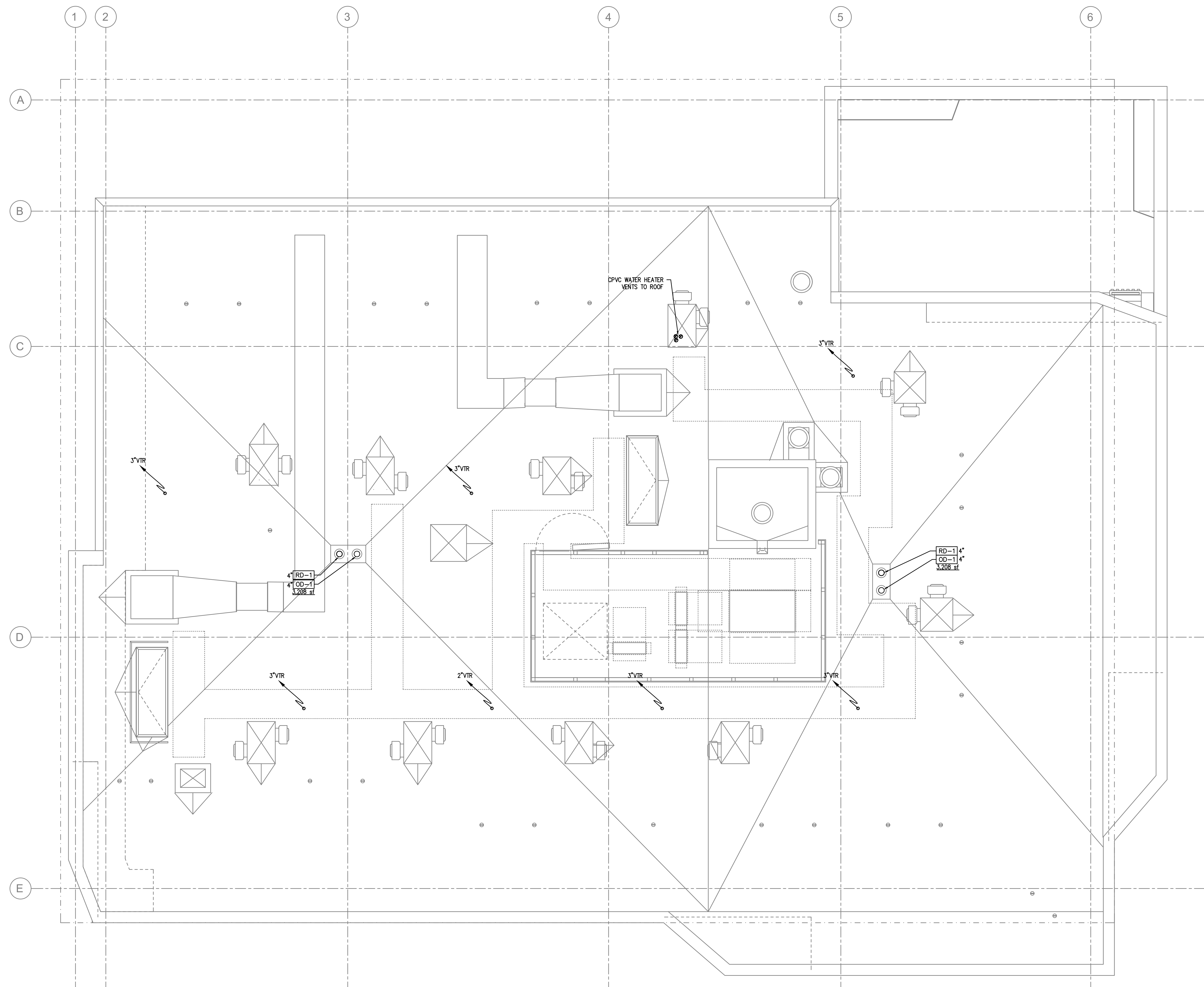
LEVEL 08 FLOOR PLAN

sheet: P1.08

CONSTRUCTION SET

issue:	date:
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100% SD	03.04.2019
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20% CD	05.14.2019
PERMIT SET	08.08.2019
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ADD 03 PERMIT REV 4	02.11.2020
CONSTRUCTION SET	02.11.2020

revision:	date:
1 REV 01	10.04.2019
2 REV 02	10.18.2019
3 REV 03	11.22.2019



GENERAL NOTES:
SEE SHEET P1.01 FOR GENERAL NOTES

1 ROOF PLUMBING PLAN
P1.09 SCALE: 1/4"=1'-0"

RISER DETAILS:
SEE SHEET **X P300** FOR RISER DIAGRAMS
⬇ = RISER NUMBER

KEY NOTES:

- (A) - ROUTE CONDENSATE PIPING INSIDE WALL FURRING. SLOPE TO DRAIN.
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- (H) - PROVIDE SHUT OFF VALVE AND CAP FOR FUTURE T.I.
- (J) - PROVIDE W/ SHUT OFF VALVE. COORDINATE NPW PIPING WITH LANDSCAPE.

title:
ROOF FLOOR PLAN

sheet:
P1.09



CONSTRUCTION SET

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PERMIT REV 4	02.04.2020
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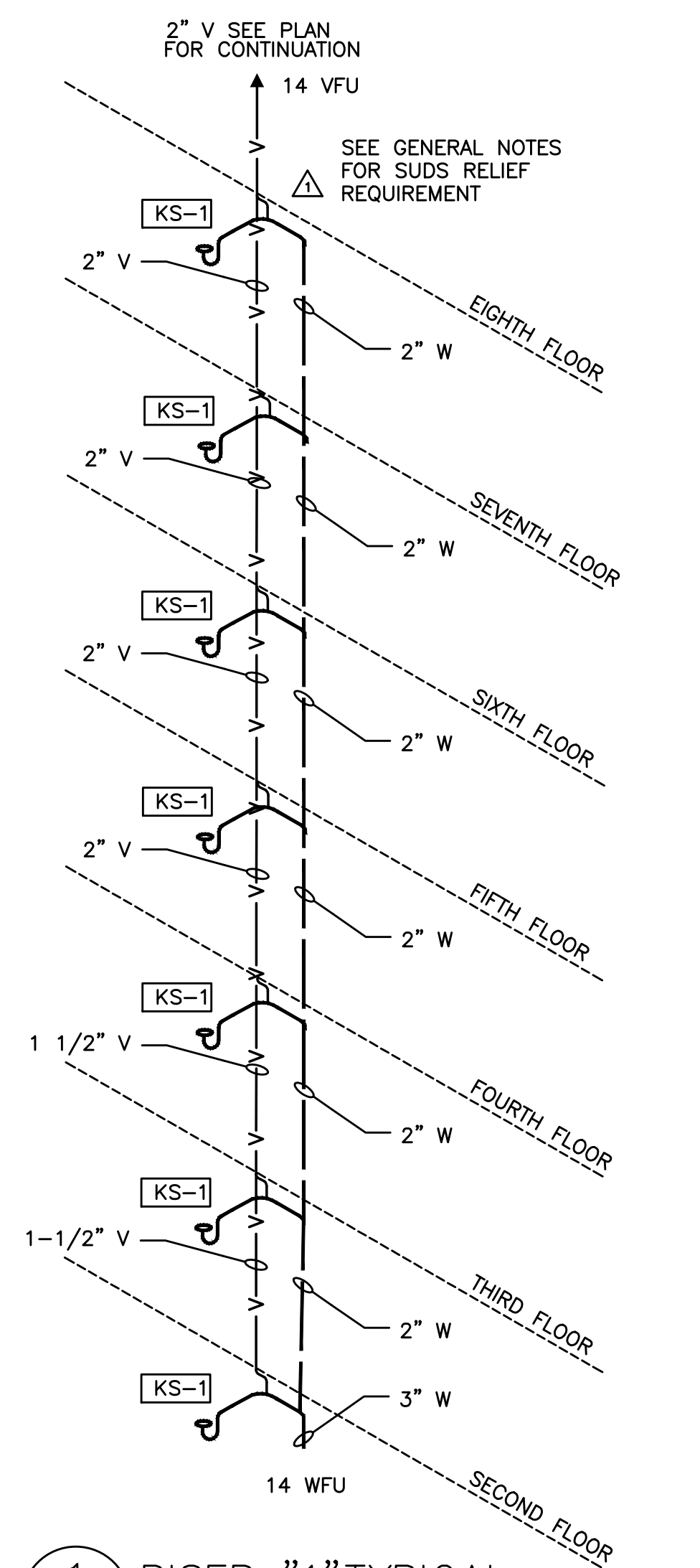
Revision	Date
1 REV 01	10.04.2019
2 REV 02	10.18.2019
3 REV 03	11.22.2019

KEYED NOTES:

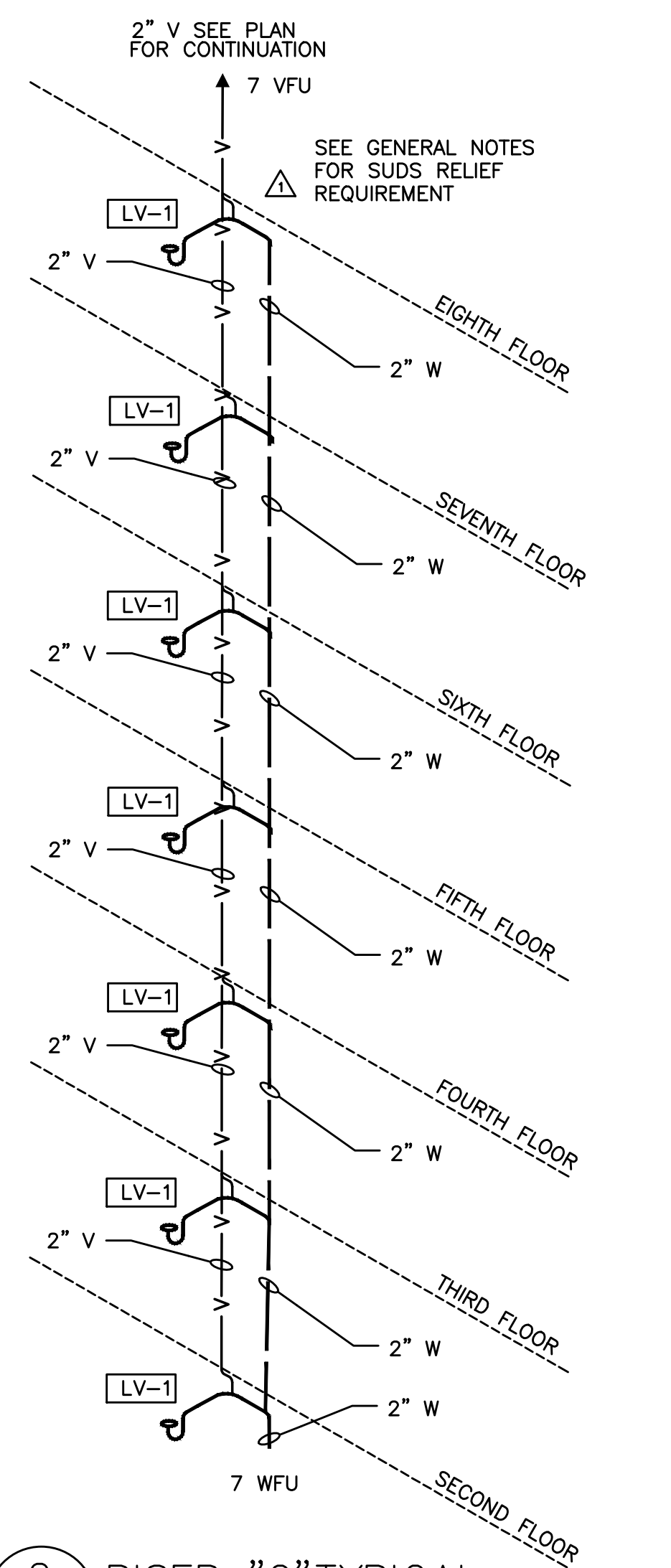
- (A) 3/4" CONDENSATE DRAIN RISER FROM PTHP(S) DOWN IN EXTERIOR WALL TO FIRST FLOOR, COLLECT EACH FLOOR PTHP ON THE WAY DOWN.
- (B) 1" CONDENSATE DRAIN RISER FROM PTHP(S) DOWN IN EXTERIOR WALL TO FIRST FLOOR, COLLECT EACH FLOOR PTHP ON THE WAY DOWN.

GENERAL NOTES:

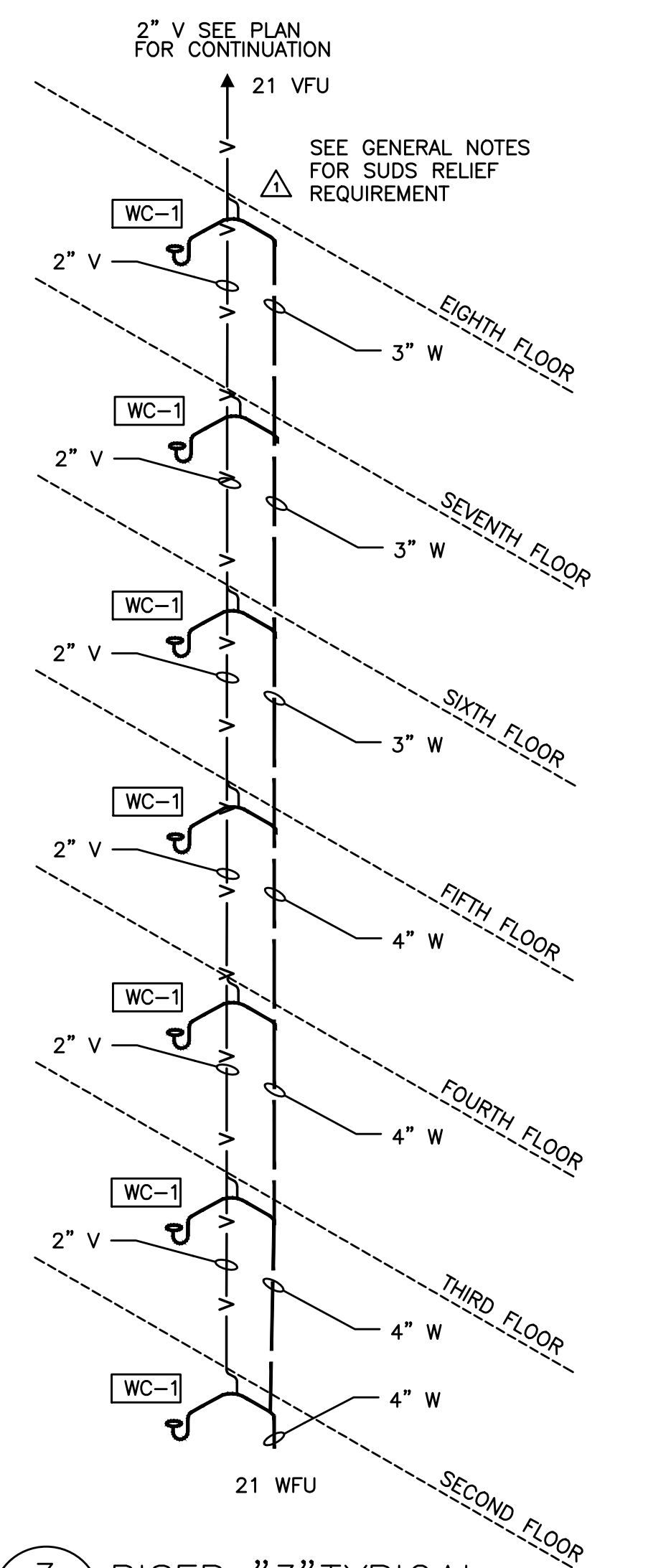
- DRAINAGE CONNECTIONS SHALL NOT BE MADE INTO A DRAINAGE PIPING SYSTEM WITHIN 8 FT OF ANY VERTICAL TO HORIZONTAL CHANGE OF DIRECTION OF A STACK CONTAINING A SUDS-PRODUCING FIXTURE.
- EXCEPTION: STACKS RECEIVING THE DISCHARGE FROM LESS THEN 3 STORIES OF PLUMBING FIXTURES
- HEAT TRACE (FREEZE PROTECTION) ALL PIPING SUBJECTED TO FREEZING CONDITIONS.
- HEAT TRACE WASTE TRAPS, INSULATE WASTE PIPING EXPOSED TO FREEZING CONDITIONS
- ROUTE ALL HVAC UNIT CONDENSATE DRAINS TO AN APPROVED LOCATION (OPTIONS LISTED BELOW)
 - ROUTE TO CLOTHES WASHER STAND PIPE, OF UNIT BELOW
 - ROUTE ALL CONDENSATES DOWN IN EXTERIOR WALL IN COMMON DRAIN SYSTEM AND ROUTE THROUGH 1ST FLOOR TO FLOOR SINK IN UTILITY ROOM - CONTRACTOR TO SIZE DRAIN SYSTEM BASED ON NUMBER OF CONNECTED UNITS.
 - PROVIDE CONDENSATE PUMPS ON ALL UNITS THAT ARE NOT GRAVITY DRAINED.
- ROUTE VENTS FROM FLOOR DRAINS/SINKS BELOW SLAB AND UP ON/IN A WALL TO VENT STACKS ABOVE. (ROUTE INDIVIDUAL VENTS UNTIL ABOVE FLOODED LINE OF FIXTURE).



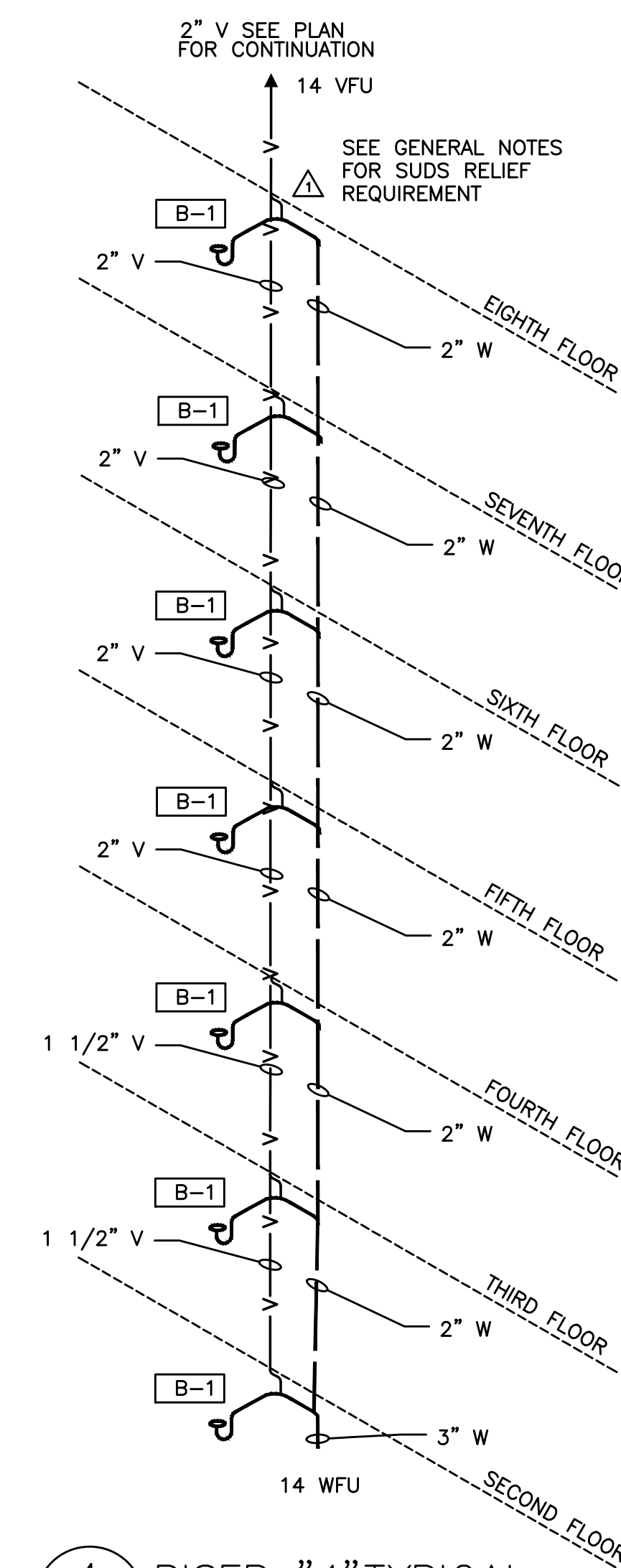
1 RISER "1" TYPICAL
P300 DIAGRAMATIC



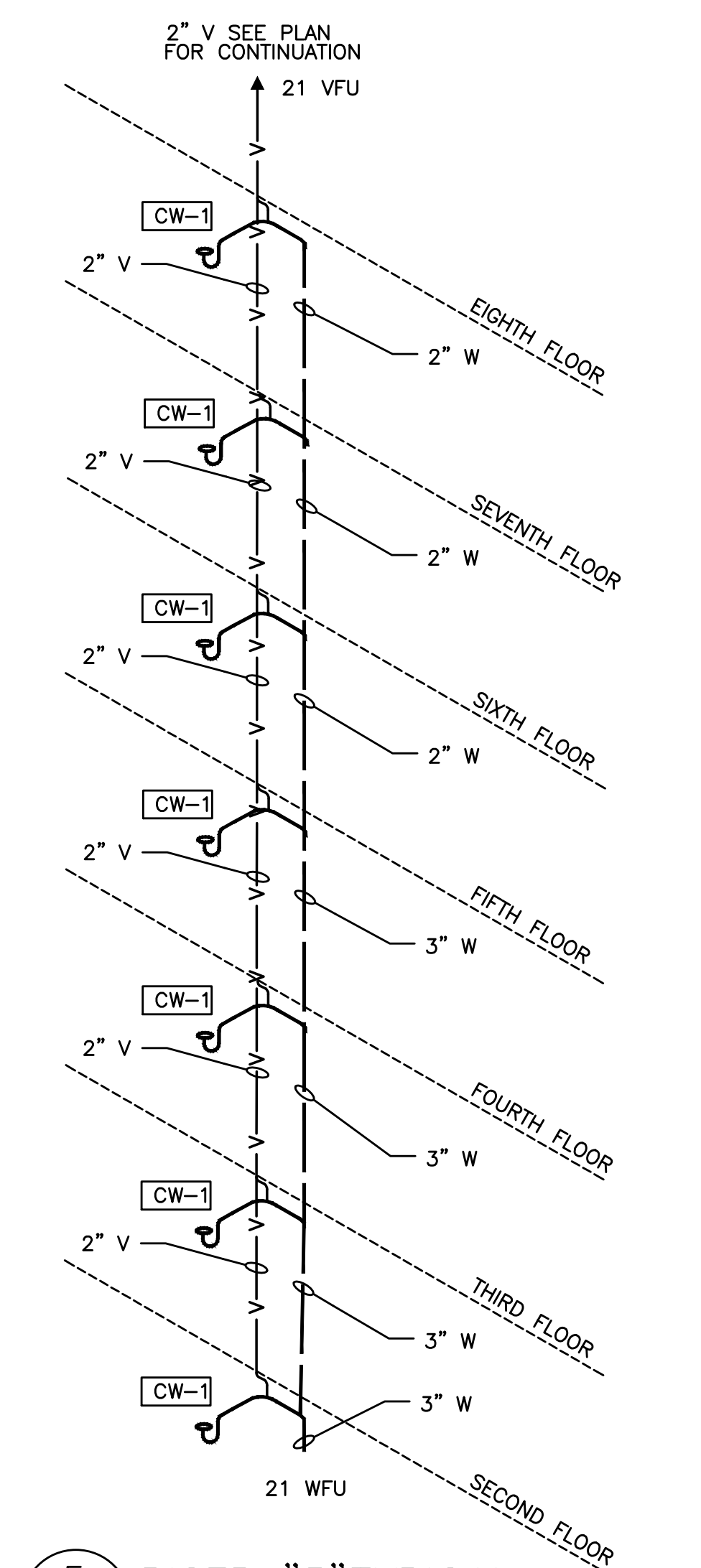
2 RISER "2" TYPICAL
P300 DIAGRAMATIC



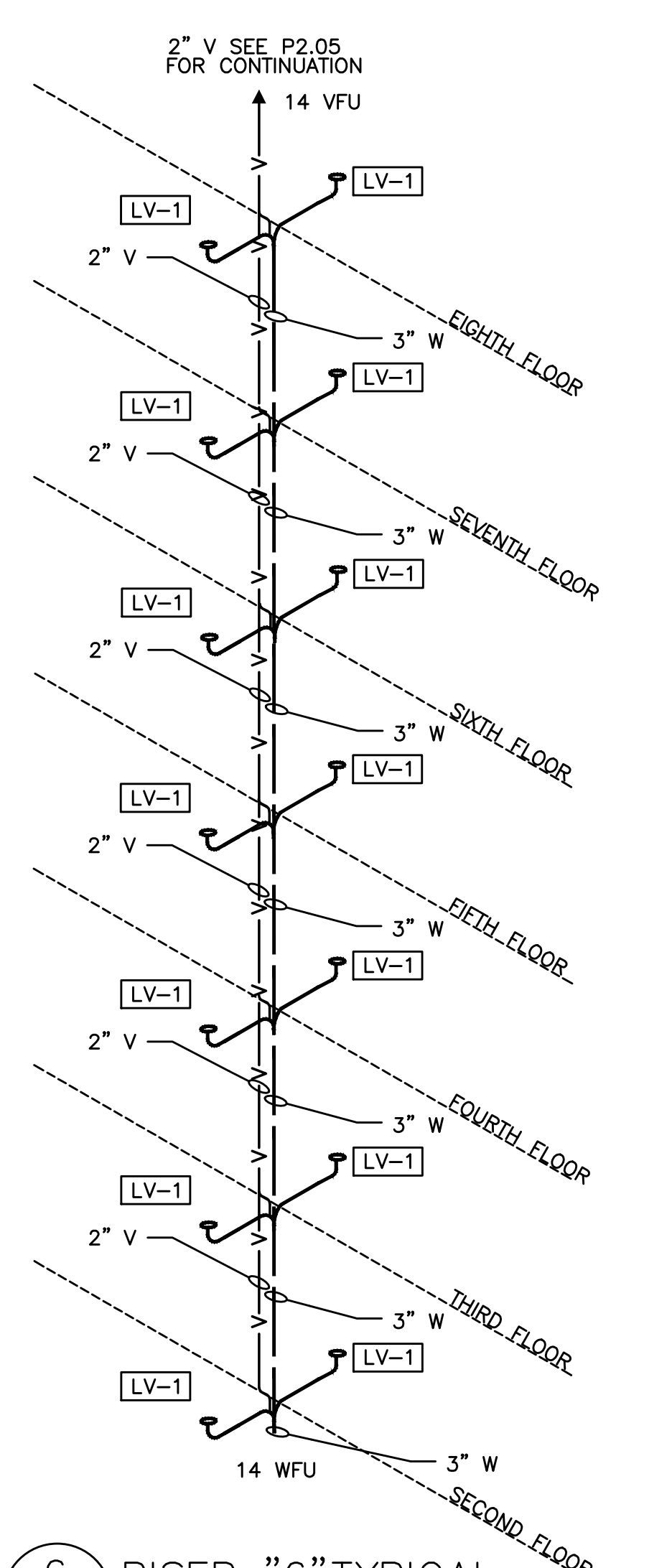
3 RISER "3" TYPICAL
P300 DIAGRAMATIC



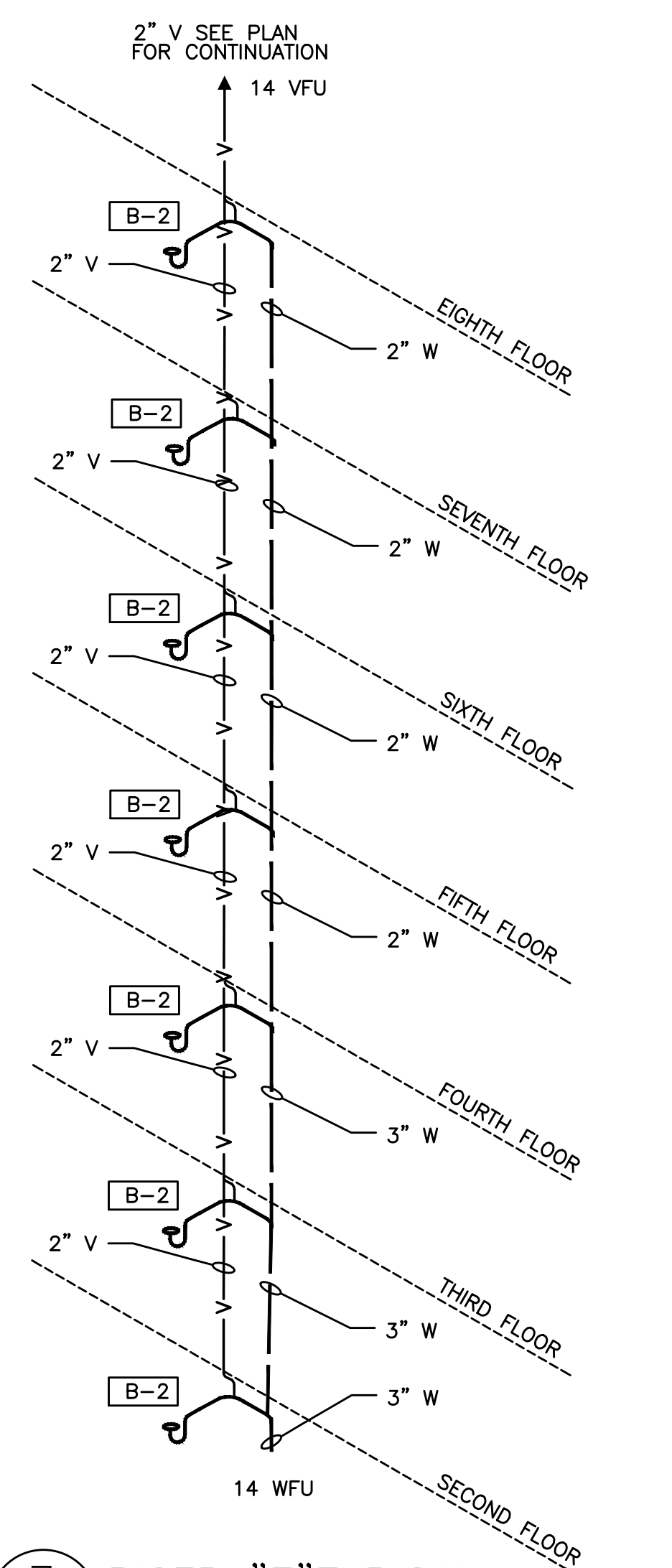
4 RISER "4" TYPICAL
P300 DIAGRAMATIC



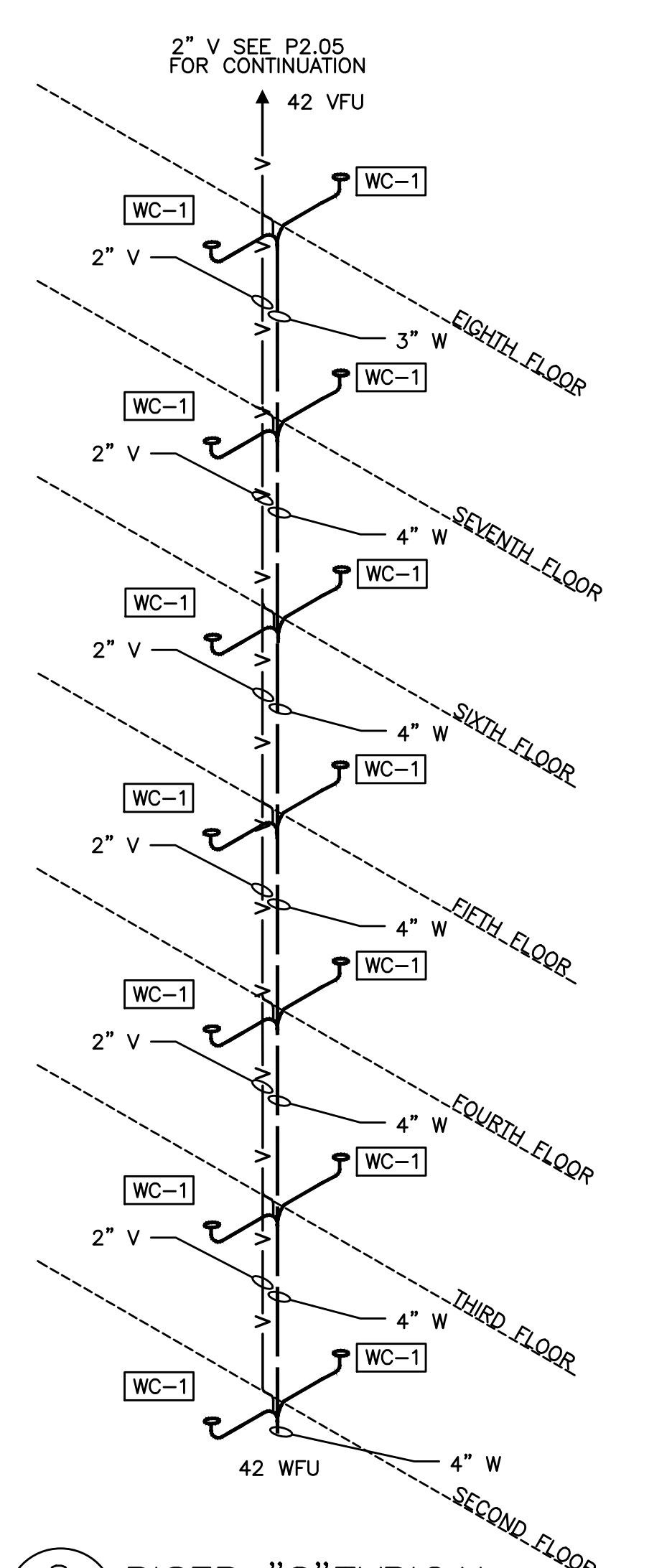
5 RISER "5" TYPICAL
P300 DIAGRAMATIC



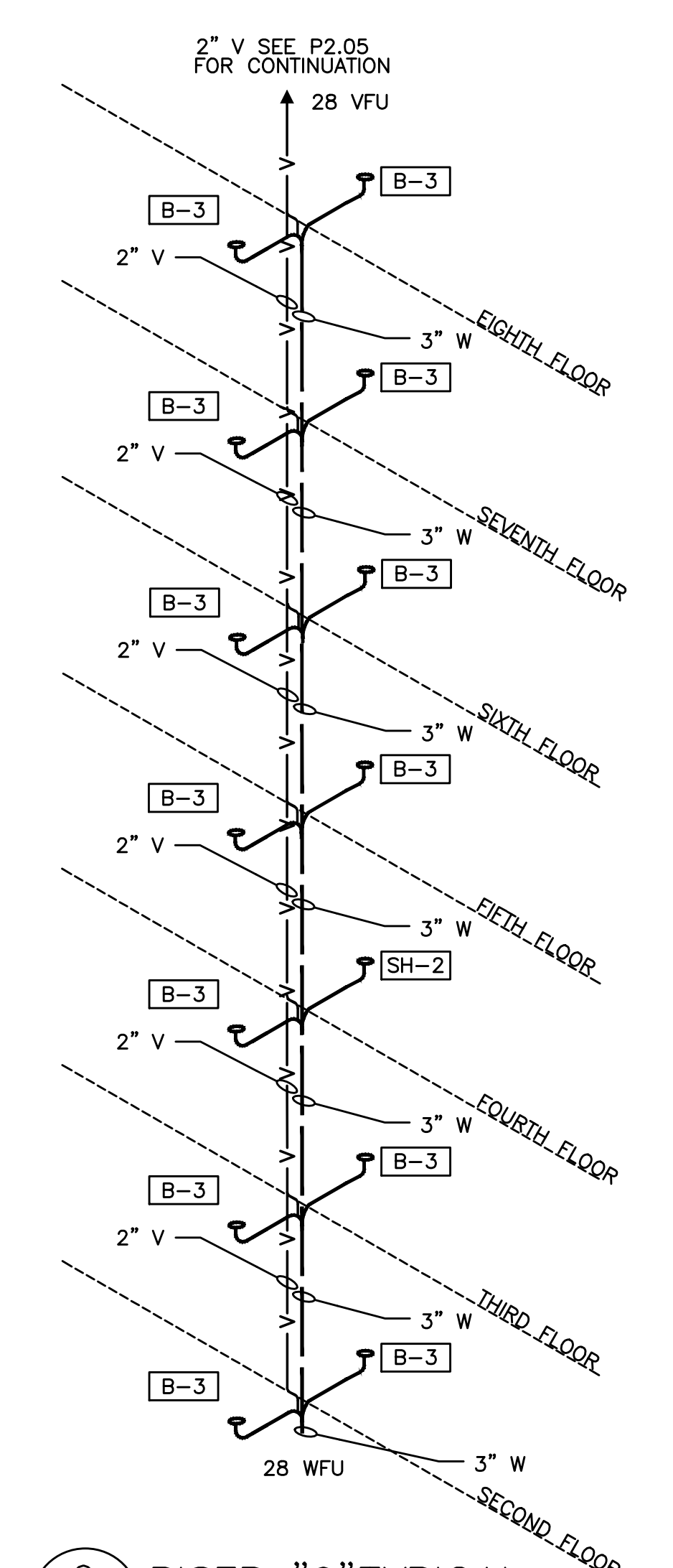
6 RISER "6" TYPICAL
P300 DIAGRAMATIC



7 RISER "7" TYPICAL
P300 DIAGRAMATIC



8 RISER "8" TYPICAL
P300 DIAGRAMATIC



9 RISER "9" TYPICAL
P300 DIAGRAMATIC

SEE GENERAL NOTES FOR SUDS RELIEF REQUIREMENT

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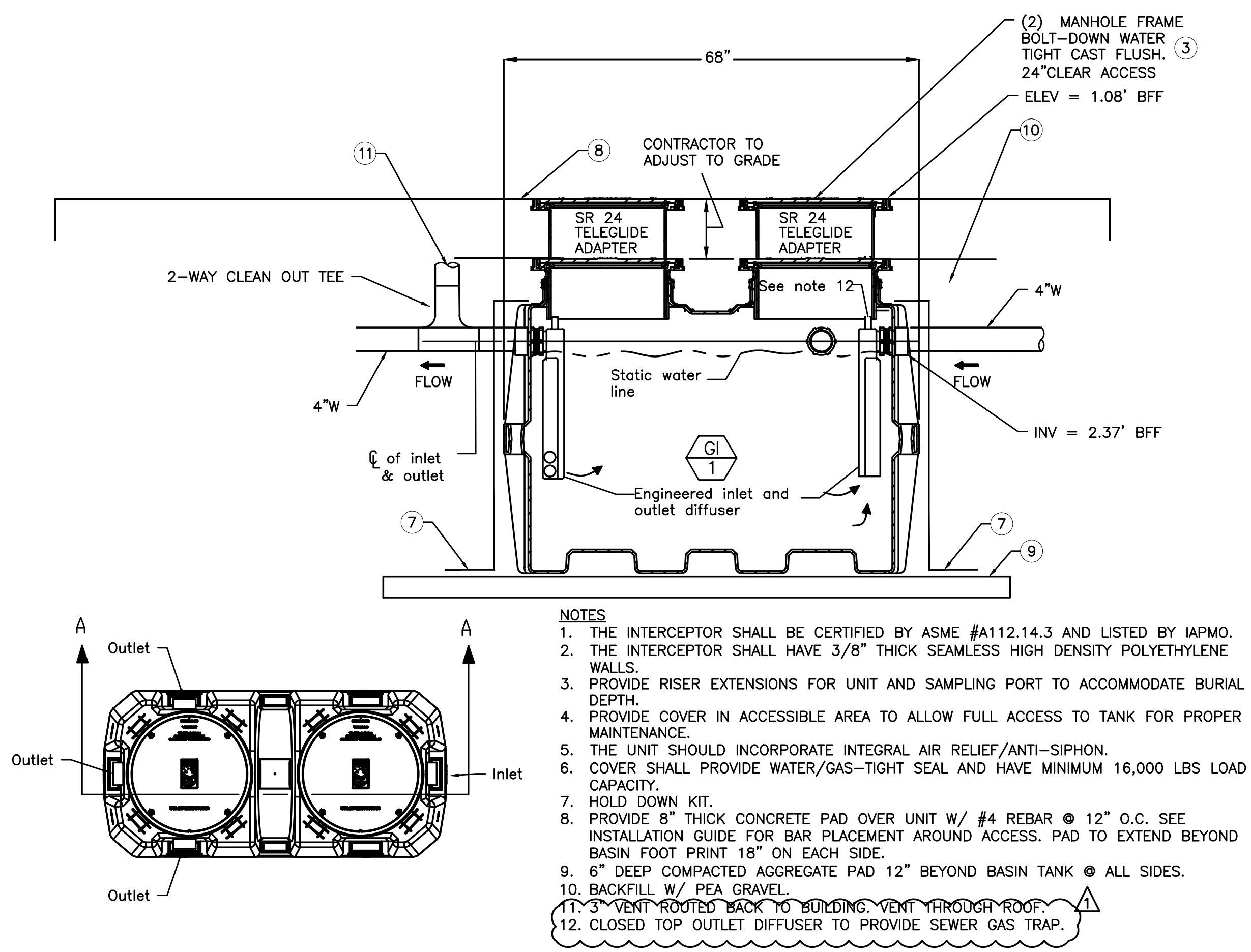
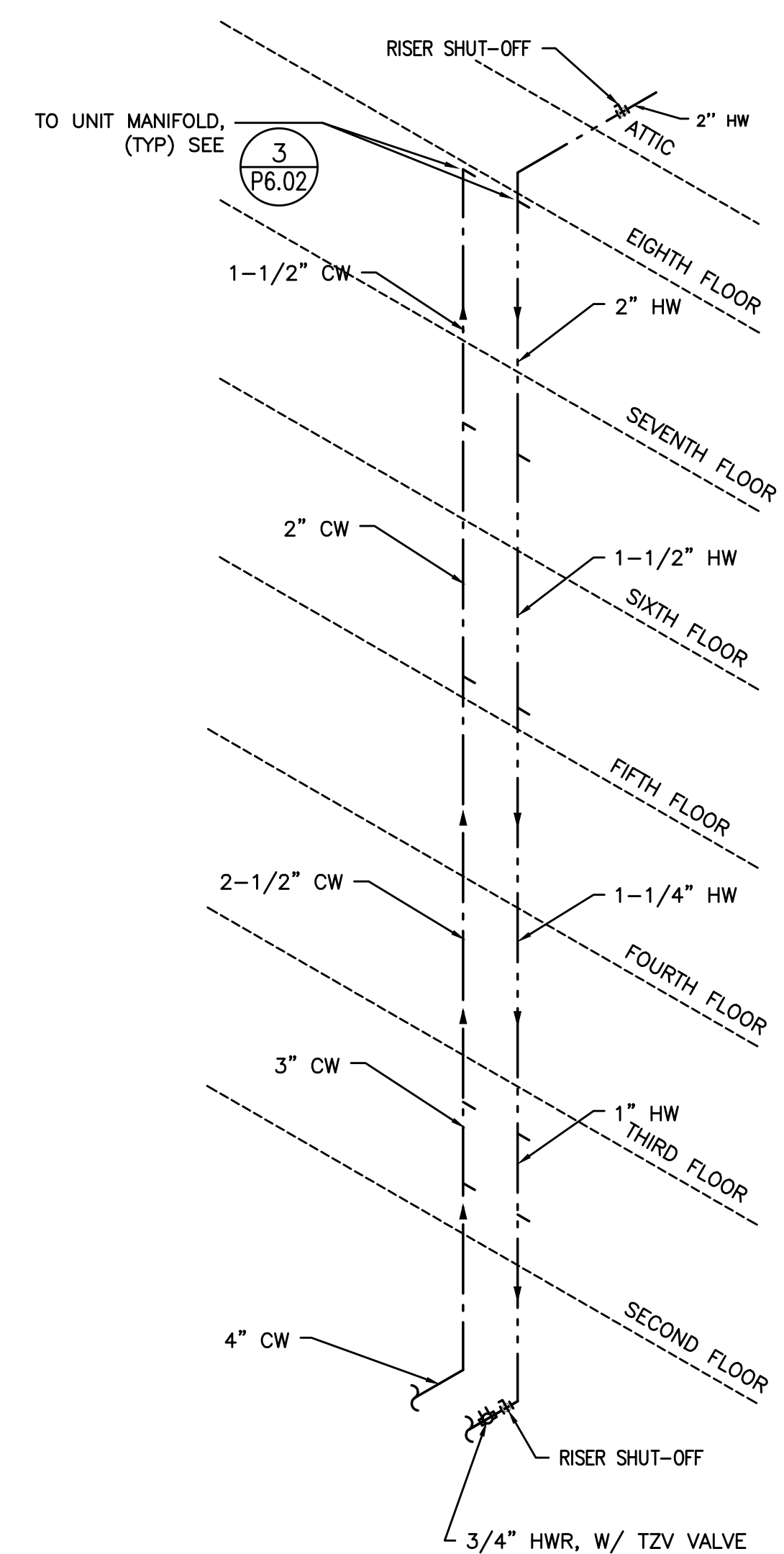
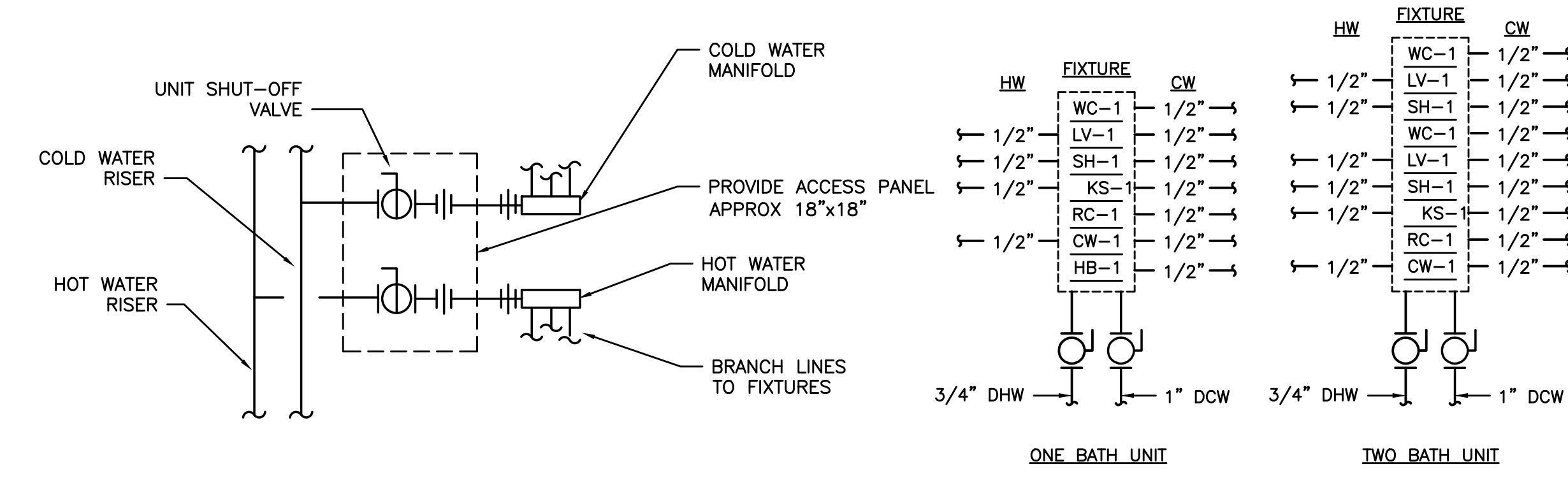
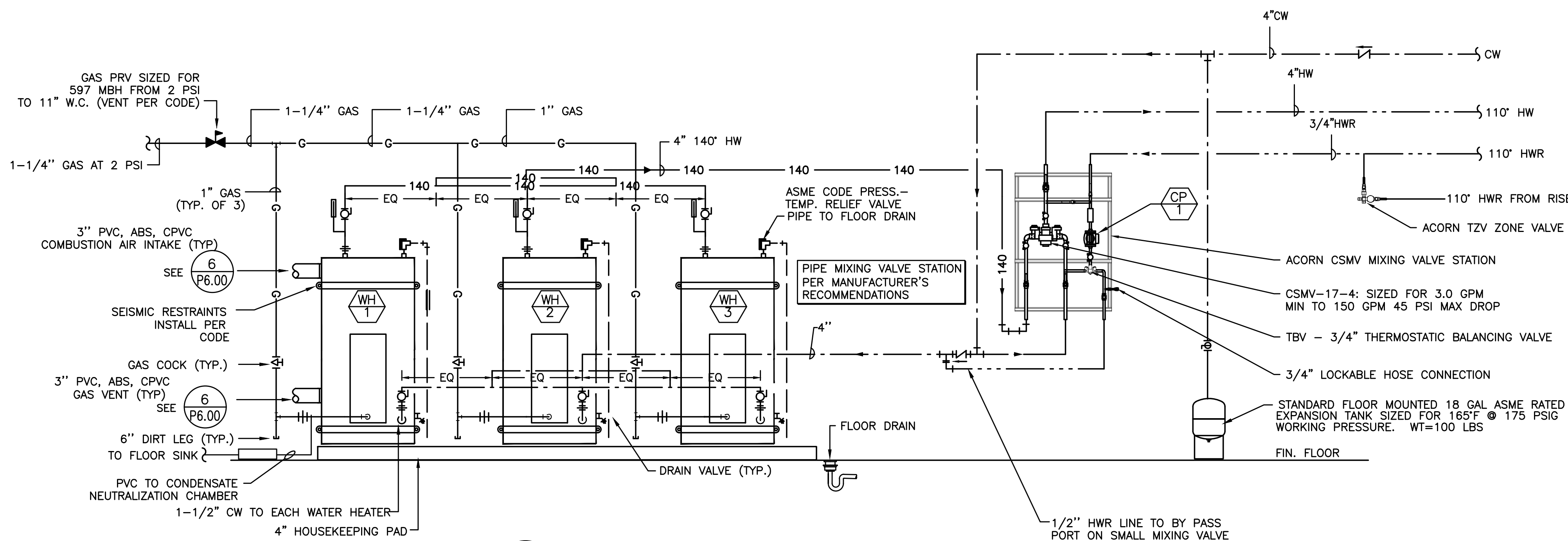
SEE GENERAL NOTES FOR SUDS RELIEF REQUIREMENT

CONSTRUCTION SET

02.11.2020

Issue:	SD	date:
50% SD		01.25.2019
100% SD		03.04.2019
100% DD		04.26.2019
20% CD		05.14.2019
PERMIT SET		08.08.2019
GNP SET		10.04.2019
PERMIT REV 1		10.18.2019
ADD 01		11.22.2019
PERMIT REV 2		02.04.2020
ADD 02		02.04.2020
PERMIT REV 3		02.11.2020
ADD 03		
PERMIT REV 4		
CONSTRUCTION SET		

revision:	date:
1 REV 01	10.04.2019
2 REV 02	10.18.2019
3 REV 03	11.22.2019



- NOTES
1. THE INTERCEPTOR SHALL BE CERTIFIED BY ASME #A112.14.3 AND LISTED BY IAPMO.
 2. THE INTERCEPTOR SHALL HAVE 3/8" THICK SEAMLESS HIGH DENSITY POLYETHYLENE WALLS.
 3. PROVIDE RISER EXTENSIONS FOR UNIT AND SAMPLING PORT TO ACCOMMODATE BURIAL DEPTH.
 4. PROVIDE COVER IN ACCESSIBLE AREA TO ALLOW FULL ACCESS TO TANK FOR PROPER MAINTENANCE.
 5. THE UNIT SHOULD INCORPORATE INTEGRAL AIR RELIEF/ANTI-SIPHON.
 6. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE MINIMUM 16,000 LBS LOAD CAPACITY.
 7. HOLD DOWN KIT.
 8. PROVIDE 8" THICK CONCRETE PAD OVER UNIT W/ #4 REBAR @ 12" O.C. SEE INSTALLATION GUIDE FOR BAR PLACEMENT AROUND ACCESS. PAD TO EXTEND BEYOND BASIN FOOT PRINT 18" ON EACH SIDE.
 9. 6" DEEP COMPACTED AGGREGATE PAD 12" BEYOND BASIN TANK @ ALL SIDES.
 10. BACKFILL W/ PEA GRAVEL.
 11. 3" VENT ROUTED BACK TO BUILDING VENT THROUGH ROOF.
 12. CLOSED TOP OUTLET DIFFUSER TO PROVIDE SEWER GAS TRAP.