

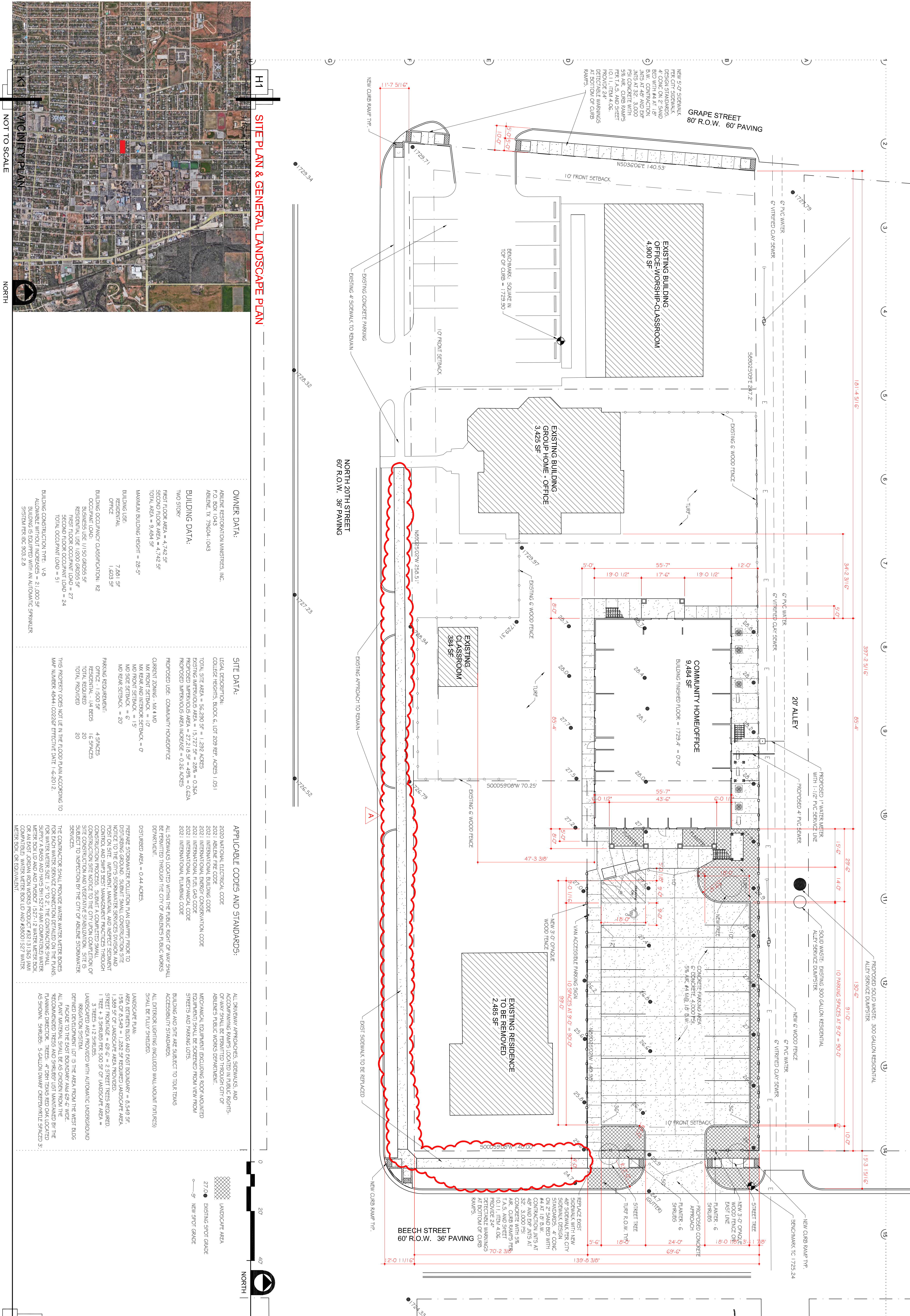
MCCATHREN ARCHITECTS, LLC  
25 Green Bay Circle  
Abilene, Texas 79602  
www.mccathren.com  
325-669-2584  
contact@mccathren.com

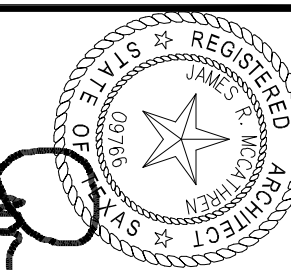
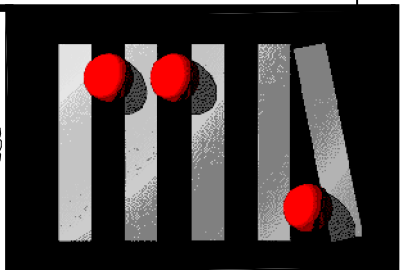
ABILENE RESTORATION  
MINISTRIES, INC.  
2018 BEECH STREET

10-3-2025  
ADDENDUM A  
10-26-2025

571-1-10.DWG  
1.10

copy 19th, 2025

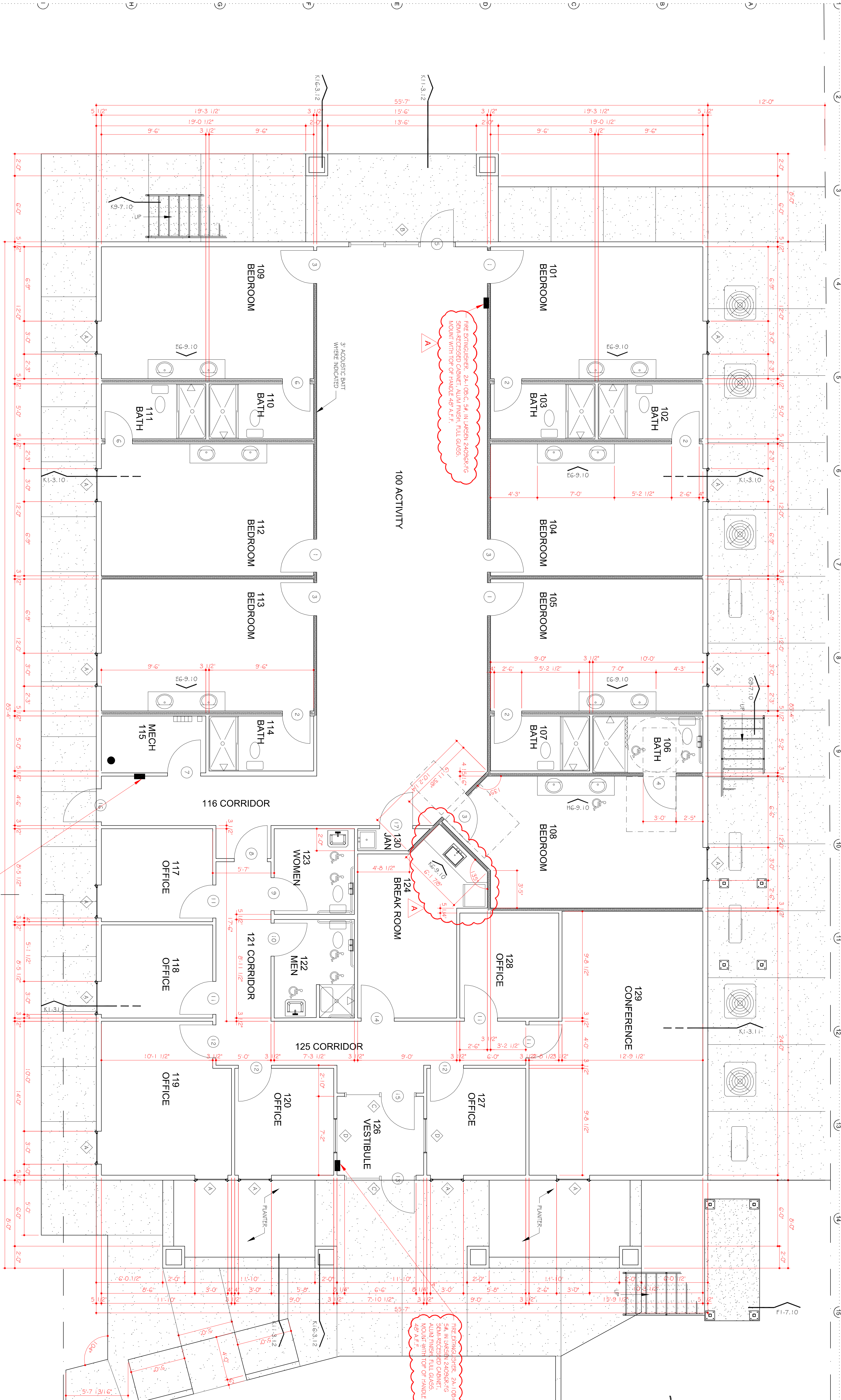


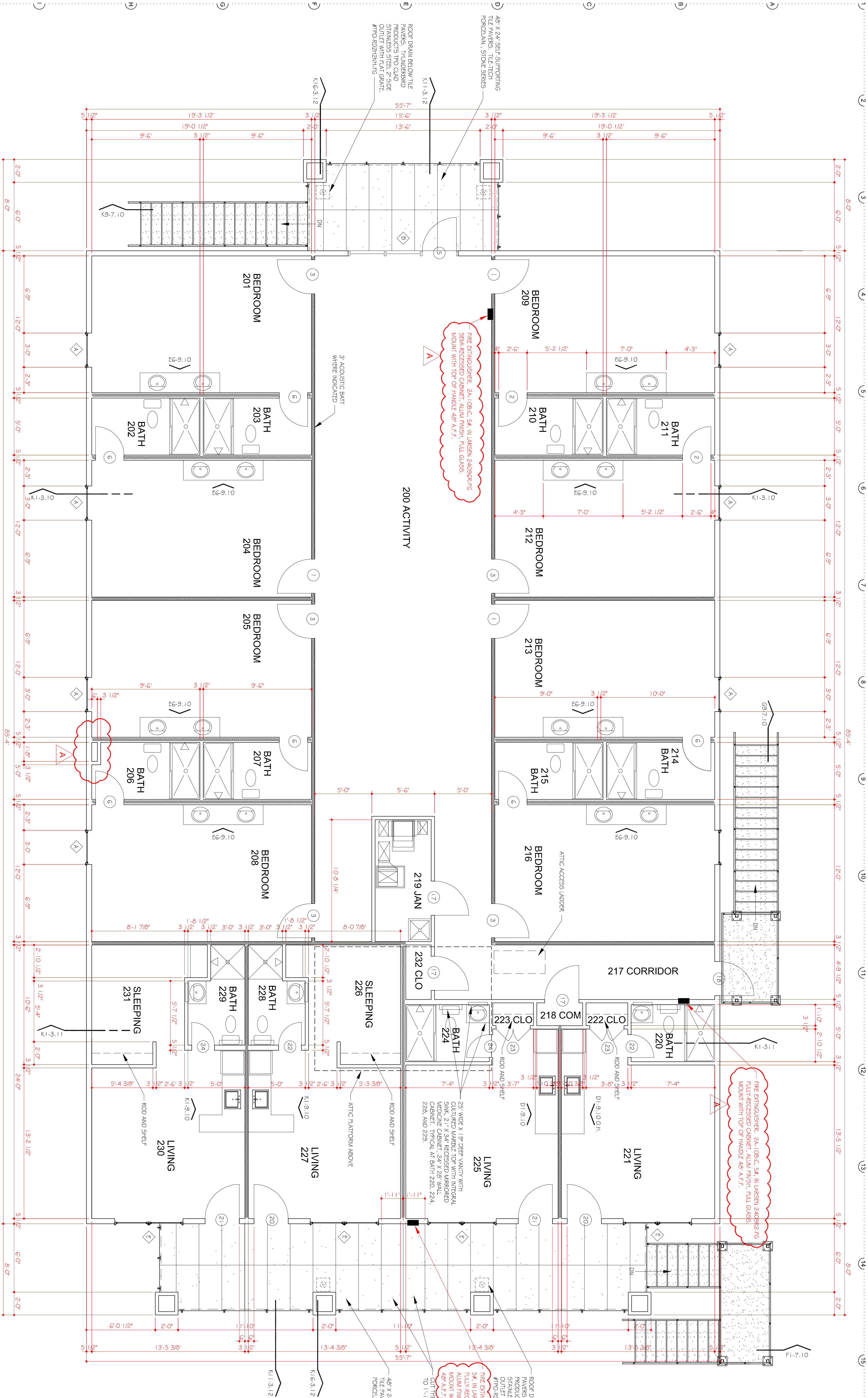


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ABILENE, TEXAS

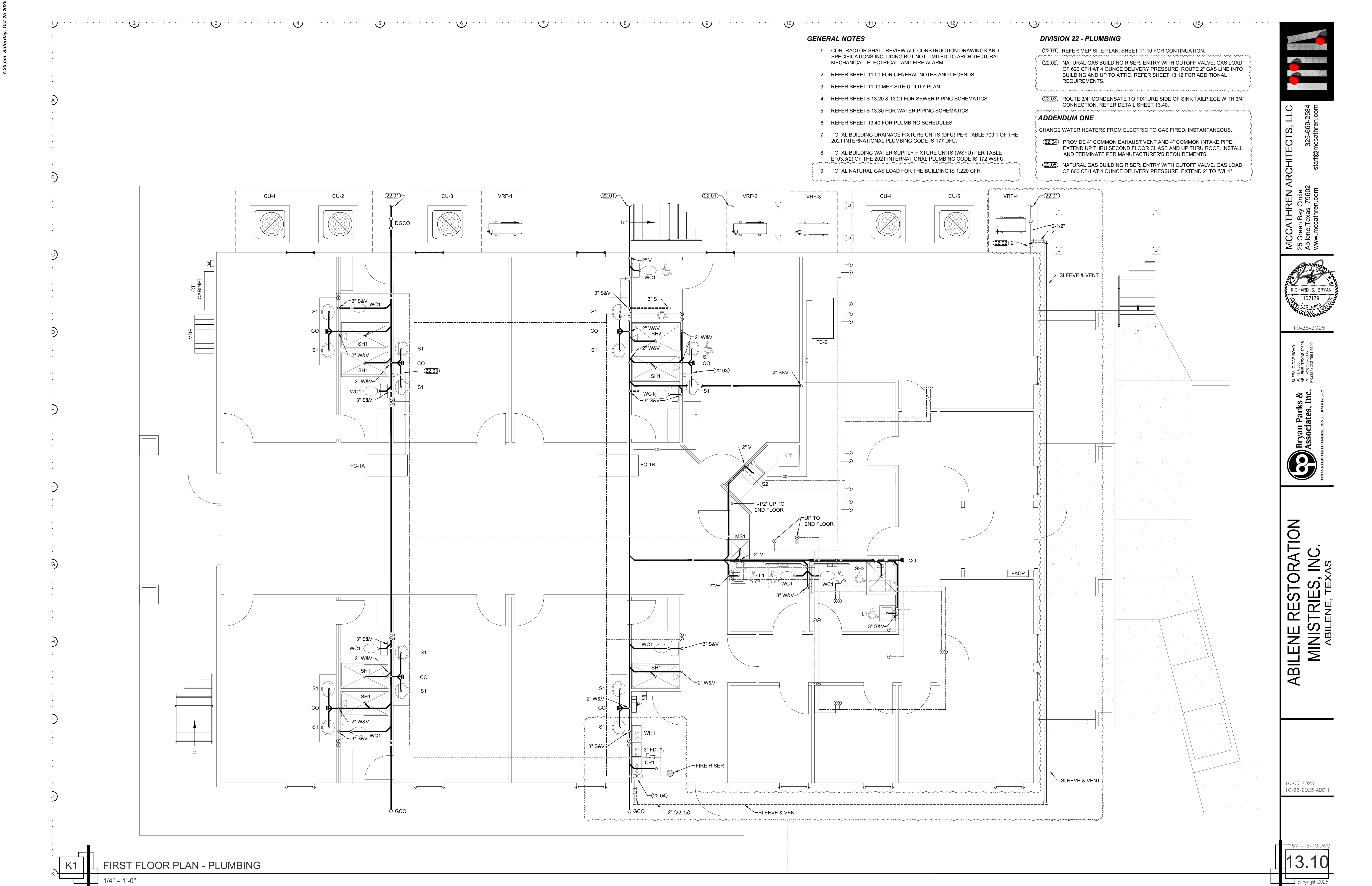
10-3-2025  
ADDENDUM A  
10-26-2025











GENERAL NOTES

1. CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND FIRE ALARM.
2. REFER SHEET 11.00 FOR GENERAL NOTES AND LEGENDS.
3. REFER SHEET 11.10 MEP SITE UTILITY PLAN.
4. REFER SHEETS 13.20 & 13.21 FOR SEWER PIPING SCHEMATICS.
5. REFER SHEETS 13.30 FOR WATER PIPING SCHEMATICS.
6. REFER SHEET 13.40 FOR PLUMBING SCHEDULES.

DIVISION 22 - PLUMBING

(22.01) ROUTE 3/4" CONDENSATE TO FIXTURE SIDE OF SINK TAILPIECE WITH 3/4" CONNECTION. REFER DETAIL SHEET 13.40.

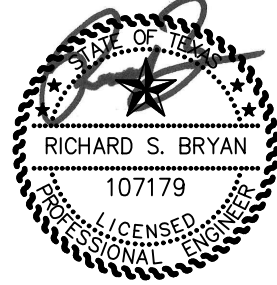
ADDENDUM ONE:

CHANGE WATER HEATERS FROM ELECTRIC TO GAS FIRED, INSTANTANEOUS.

(22.02) PROVIDE 4" COMMON EXHAUST VENT AND 4" COMMON INTAKE PIPE. EXTEND UP FROM FIRST FLOOR AND UP THRU ROOF. INSTALL AND TERMINATE PER MANUFACTURER'S REQUIREMENTS.

(22.03) PROVIDE 2" EXHAUST VENT AND 2" INTAKE PIPE UP THRU ROOF. INSTALL AND TERMINATE PER MANUFACTURER'S REQUIREMENTS.

MCCATHREN ARCHITECTS, LLC  
25 Green Bay Circle  
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10-25-2025

BUFFALO GAP ROAD  
ABILENE, TEXAS 79606  
Bryan Parks &  
Associates, Inc.  
TX 03512327551 4400  
TEXAS REGISTERED ENGINEERING FIRM # F15962

ABILENE RESTORATION  
MINISTRIES, INC.  
ABILENE, TEXAS

10-09-2025  
10-25-2025 ADD 1

571-13-11.DWG

13.11

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K1

SECOND FLOOR PLAN - PLUMBING

1/4" = 1'-0"

7:30 pm Saturday, Oct 25 2025

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

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GENERAL NOTES

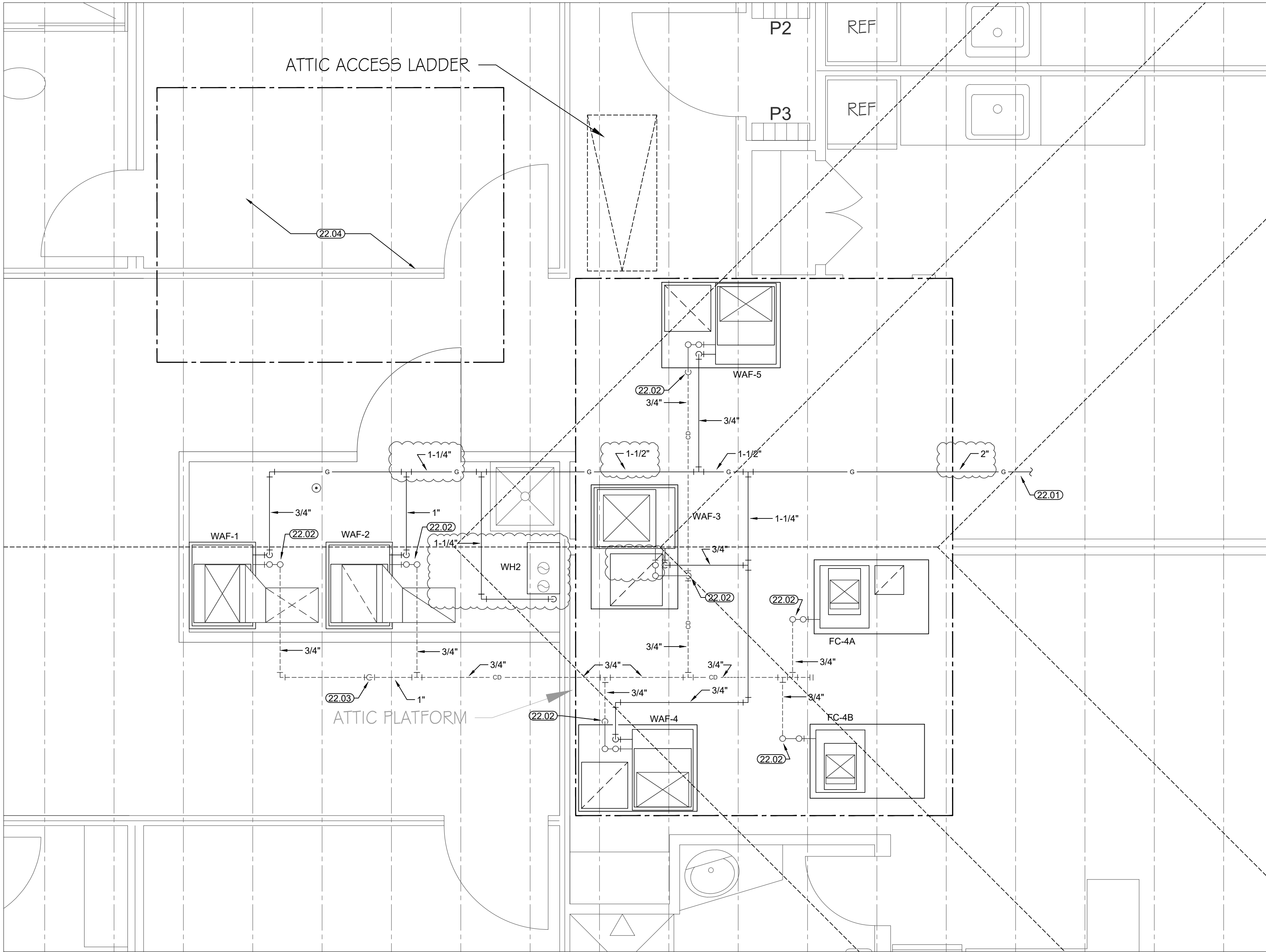
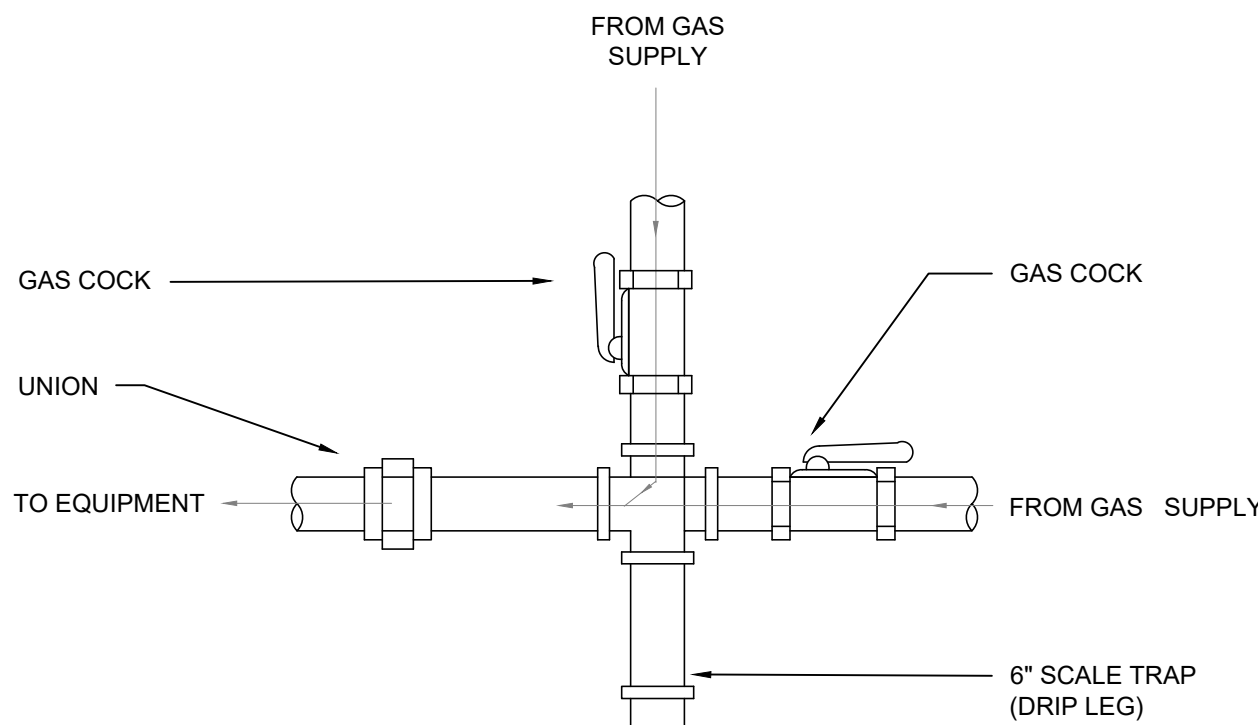
1. CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND FIRE ALARM.
2. REFER SHEET 11.00 FOR GENERAL NOTES AND LEGENDS.
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5. REFER SHEETS 13.30 FOR WATER PIPING SCHEMATICS.
6. REFER SHEET 13.40 FOR PLUMBING SCHEDULES.

DIVISION 22 - PLUMBING

- (22.01) 2" GAS LINE FROM BUILDING ENTRY, REFER SHEET 13.10 FOR ADDITIONAL REQUIREMENTS.
- (22.02) ROUTE FULL SIZE CONDENSATE FROM UNIT DOWN TO 1ST FLOOR CEILING SPACE AND CONNECT TO COMMON CONDENSATE DRAIN.
- (22.03) ROUTE 1" CONDENSATE DRAIN DOWN WALL, TURN OUT OF WALL 6-INCHES ABOVE 1ST FLOOR SERVICE SINK AND TERMINATE WITH 90 ELBOW TURNED DOWN.
- (22.04) ALL GAS FLUE PIPE TO BE EXTENDED TO NORTH SIDE OF ROOF RIDGE AND LOCATED WITHIN THE DESIGNATED BOUNDARY.

ADDENDUM ONE:

CHANGE WATER HEATERS FROM ELECTRIC TO GAS FIRED, INSTANTANEOUS. REVISED GAS PIPE SIZES.



K1

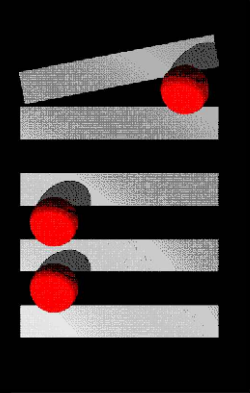
GAS CONNECTION TO EQUIPMENT DETAIL

NO SCALE

K7

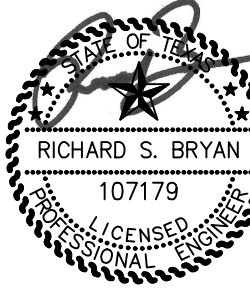
EQUIPMENT MEZZANINE ENLARGED PLAN - PLUMBING

1/2" = 1'-0"



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10-25-2025

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ABILENE, TEXAS 79606  
PHONE: 325-669-2684  
FAX: 325-232-7651 4400



Bryan Parks &  
Associates, Inc.  
TEXAS REGISTERED ENGINEERING FIRM # F15962

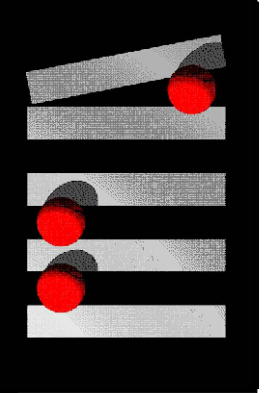
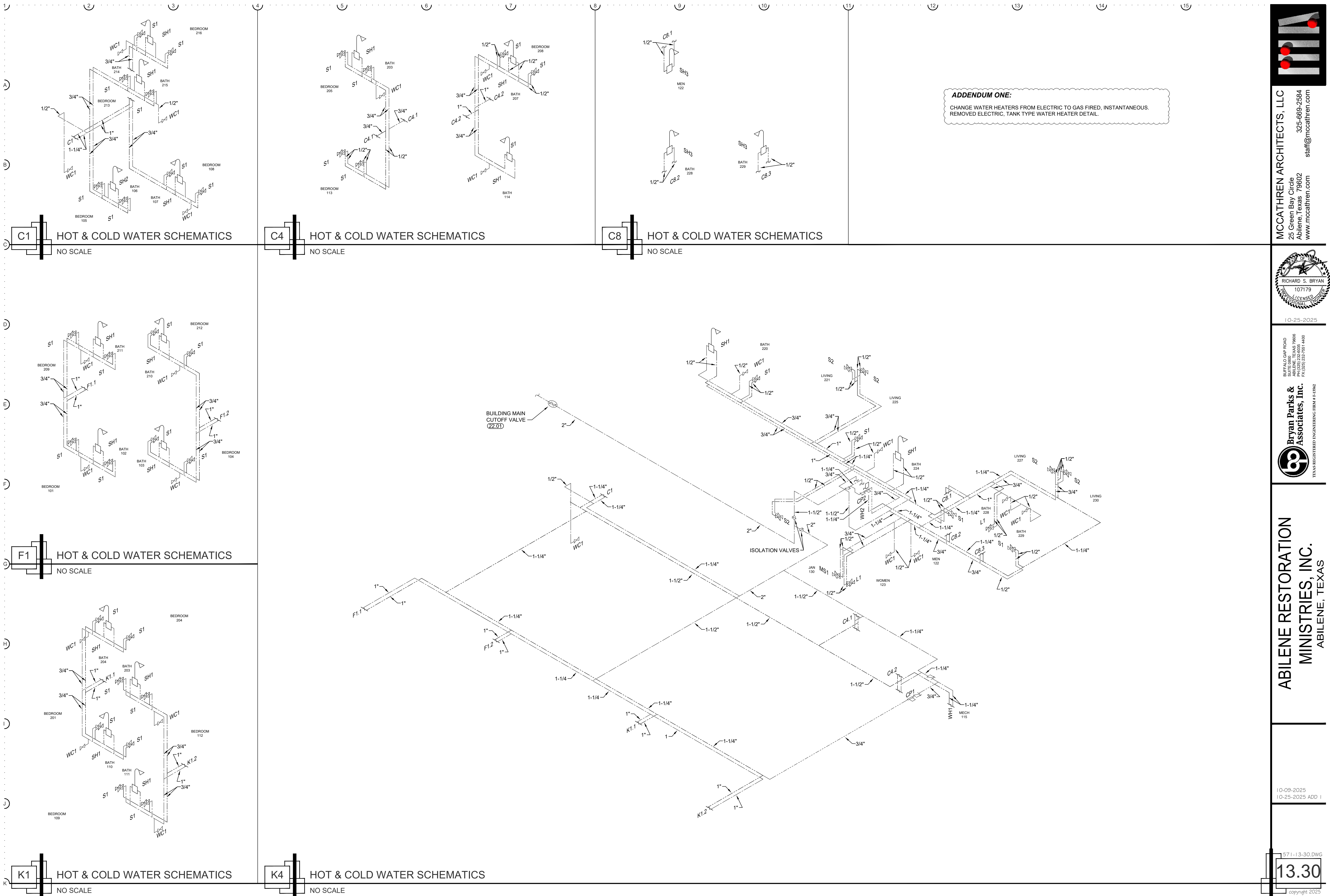
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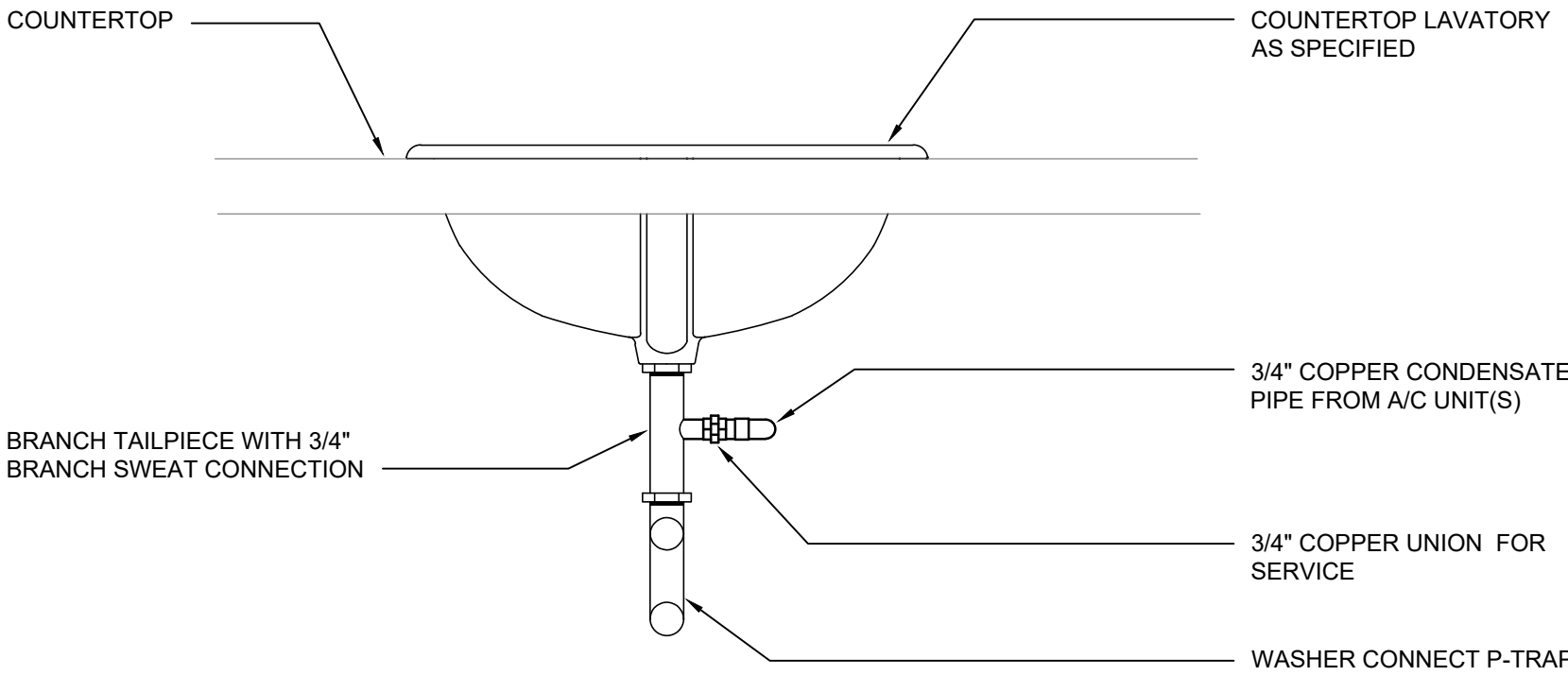
10-25-2025

BUFFALO GAP ROAD  
ABILENE, TEXAS 79606  
TX 0353 232 7951 4400  
**Bryan Parks & Associates, Inc.**  
TEXAS REGISTERED ENGINEERING FIRM # F1362

**ABILENE RESTORATION MINISTRIES, INC.**  
ABILENE, TEXAS

10-09-2025  
10-25-2025 ADD 1

| PLUMBING FIXTURE SCHEDULE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                        |              |                     |        |        |        |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------|---------------------|--------|--------|--------|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| TAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FIXTURE TYPE                                                           | MANUFACTURER | MODEL NUMBER        | TRAP   | WASTE  | VENT   | CW   | HW   | DESCRIPTION TRIM AND NOTES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |
| WC1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FLOOR MOUNT<br>TANK TYPE<br>WATER CLOSET<br>(TAS) ADULT HEIGHT         | KOHLER       | K-3999              | -      | 3"     | 2"     | 1/2" | -    | KOHLER "HIGHLINE COMFORT HEIGHT", WHITE VITREOUS CHINA, TWO PIECE TANK TYPE ELONGATED BOWEL, 1.28 GALLON PER FLUSH, 16-1/2" BOWL HEIGHT. PROVIDE WITH 12" ROUGH-IN. VERIFY RIGHT OR LEFT HAND FLUSH LEVER WITH DRAWINGS TO BE LOCATED ON WIDE SIDE OF TOILET PER TAS. PROVIDE WHITE OPEN FRONT PLASTIC SEAT WITH SELF SUSTAINING CHECK HINGE EQUAL TO BEMIS 1955SCST. MEETS TAS REQUIREMENT (17'-19" TO THE TOP OF THE SEAT) TOILET BOWL (16-1/2") PLUS SEAT (1'-1/8") FOR AN OVERALL SEAT HEIGHT OF (17'-5/8").                |  |
| S1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | COUNTER MOUNTED<br>DROP-IN<br>OVAL SINK<br>ADA/TAS                     | KOHLER       | PENNINGTON K-2196-4 | 1-1/2" | 1-1/2" | 1-1/2" | 1/2" | 1/2" | 20-1/4" X 17-1/2" VITREOUS CHINA DROP-IN COUNTERTOP LAVATORY WITH OVERFLOW. LAVATORY SHALL HAVE 4" CENTERS. PROVIDE KOHLER "TRITON BOWE" K-400TO-4ANNA FAUCET WITH AERATOR (0.5 GPM) WITH WRISTBLADE HANDLES. PROVIDE CHROME GRID STRAINER, TAILPIECE, 1/4 TURN STOPS AND RISERS.                                                                                                                                                                                                                                               |  |
| S2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | COUNTER MOUNTED<br>SINGLE COMPARTMENT<br>STAINLESS STEEL SINK<br>(TAS) | ELKAY        | LRAD-221965         | 1-1/2" | 1-1/2" | 1-1/2" | 1/2" | 1/2" | 22" x 19" x 6-1/2" SINGLE BOWL DROP-IN ADA SINK, 18 GAUGE, TYPE 304 STAINLESS STEEL WITH A LUSTERTONE SATIN FINISH, SELF-RIMMING SINK WITH SINGLE FAUCET HOLE. DRAIN PUNCH IN CENTER REAR OF SINKS. PROVIDE STAINLESS STEEL CUP STRAINER WITH REMOVABLE STAINLESS STEEL BASKET. FAUCET: ELKAY LKAY3031 HIGH ARC PULLDOWN SPRAY HEAD, SINGLE HANDLE FAUCET IN POLISHED CHROME FINISH. 1.8 GPM MAXIMUM FLOW RATE AT 60 PSI.                                                                                                       |  |
| L1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | WALL MOUNTED<br>LAVATORY<br>(TAS)                                      | KOHLER       | K-2005, KINGSTON    | 2"     | 1-1/2" | 1-1/2" | 1/2" | 1/2" | 21-1/4" x 18-1/8" WALL MOUNT, VITREOUS CHINA LAVATORY WITH 4" CENTERS, OVERFLOW, AND DRILLED FOR CONCEALED ARM CARRIER. PROVIDE TAILPIECE AND OFFSET DRAIN FOR (TAS) COMPLIANCE. FAUCET: KOHLER "TRITON" K-4000T-4ANA FAUCET WITH AERAOTR (0.5 GPM) WITH WRISTBLADE HANDLES. PROVIDE FLOOR MOUNTED CARRIER AND ADJUST TO HEIGHT PER ARCHITECTURAL DRAWINGS. PROVIDE PIPE INSULATION KIT PER NOTE 4 FOR (TAS) LAVATORIES.                                                                                                        |  |
| SH1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SINGLE PIECE<br>SHOWER STALL<br>60" W x 30"D x 76"H<br>LH / RH DRAIN   | AQUATIC      | 16030STTM           | -      | -      | -      | 1/2" | 1/2" | SINGLE PIECE SHOWER STALL, SIMULATED SUBWAY TILE WALL, LOW 4-INCH THRESHOLD, SLIP RESISTANT TEXTURED FLOOR FOR SAFETY. COORDINATE LEFT / RIGHT HAND DRAIN WITH PLANS. ROUGH-IN DIMENSIONS: 60-1/8" W x 31-1/4" D. INTERIOR 57" W x 28-3/4" D. PROVIDE COMMERCIAL SINGLE HANDLE MONITOR SHOWER VALVE WITH PRESSURE BALANCE CARTRIDGE AND HANDLE LESS SHOWER HEAD EQUAL TO DELTA T13291, 1.75 GPM. PROVIDE SHOWER DRAIN KIT.                                                                                                      |  |
| SH2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SINGLE PIECE<br>ROLL-IN SHOWER STALL<br>60" W x 37"D x 77"H<br>(TAS)   | AQUATIC      | 16037BFSD           | -      | -      | -      | 1/2" | 1/2" | SINGLE PIECE ROLL-IN SHOWER STALL, FULLY EQUIPPED WITH CUSHIONED L-SHAPED FOLD-UP SEAT, CENTER DRAIN LOCATION, SLIP RESISTANT TEXTURED BOTTOM. (1) 28" x 1-1/2" DIAMETER GRAB BAR LOCATED ON THE SIDE WALL, (1) 30" x 1-1/2" DIAMETER GRAB BAR ON BACK WALL, (1) 18" x 1-1/2" DIAMETER VERTICAL GRAB BAR. PROVIDE PRESSURE BALANCING MIXING VALVE AND HAND-HELD SHOWER ASSEMBLY (ON BACK WALL OFFSET SEAT) PER ANSI GUIDELINES. PROVIDE WITH DRAIN KIT. ROUGH-IN DIMENSIONS: 62-1/8" W x 39-3/8" D. INTERIOR 60" W x 36-5/8" D. |  |
| SH3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SINGLE PIECE<br>SHOWER STALL<br>36" W x 36" D x 77"H<br>(TAS)          | AQUATIC      | 1363BFSC            | -      | -      | -      | 1/2" | 1/2" | SINGLE PIECE ROLL-IN SHOWER STALL, FULLY EQUIPPED WITH CUSHIONED L-SHAPED FOLD-UP SEAT, CENTER DRAIN LOCATION, SLIP RESISTANT TEXTURED BOTTOM. 1-1/2" DIAMETER STAINLESS STEEL L-SHAPED GRAB BAR, (1) 18" x 1-1/2" DIAMETER VERTICAL GRAB BAR. PROVIDE PRESSURE BALANCING MIXING VALVE AND HAND-HELD SHOWER ASSEMBLY (OPPOSITE SIDE OF SEAT) PER ANSI GUIDELINES. PROVIDE WITH DRAIN KIT. ROUGH-IN DIMENSIONS: 38-1/8" W x 38-1/4" D. INTERIOR 36" W x 36" D.                                                                   |  |
| MS1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FLOOR MOUNTED<br>MOP SERVICE BASIN                                     | FIAT         | TSB3000             | 3"     | 3"     | 1-1/2" | 1/2" | 1/2" | 24" x 24" x 12" ONE PIECE, PRECAST TERRAZZO MOP SERVICE BASIN WITH DRAIN BODY FOR 3" PIPE AND STAINLESS STEEL STRAINER. PROVIDE FIAT 830-AA CHROME PLATED SERVICE SINK FAUCET WITH WALL BRACE, VACUUM BREAKER, INTEGRAL STOPS, PAIL HOOK AND 3/4" HOSE THREAD SPOUT.                                                                                                                                                                                                                                                            |  |
| FD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FLOOR DRAIN                                                            | JR. SMITH    | 2005-NB             | 2"     | 2"     | 1-1/2" | -    | -    | CAST IRON FLOOR DRAIN WITH BOTTOM OUTLET, REVERSIBLE FLASHING COLLAR, SEEPAGE OPENINGS, AND SQUARE ADJUSTABLE NICKEL BRONZE STRAINER HEAD. PROVIDE WITH VANDAL PROOF SCREWS.                                                                                                                                                                                                                                                                                                                                                    |  |
| HD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FLOOR DRAIN                                                            | JR. SMITH    | 2005-NB             | 2"     | 2"     | 1-1/2" | -    | -    | CAST IRON FLOOR DRAIN WITH BOTTOM OUTLET, REVERSIBLE FLASHING COLLAR, SEEPAGE OPENINGS, AND ROUND ADJUSTABLE NICKEL BRONZE STRAINER HEAD WITH EXTENDED RIM. PROVIDE VANDAL PROOF SCREWS.                                                                                                                                                                                                                                                                                                                                        |  |
| FCO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | FLOOR CLEANOUT<br>INTERIOR                                             | J.R. SMITH   | 4023S-F-C-U         | -      | -      | -      | -    | -    | CAST IRON CLEANOUT WITH ROUND, ADJUSTABLE, SCORIATED, SECURED NICKEL BRONZE TOP. TAPERED THREAD WITH BRONZE PLUG, FLANGE WITH FLASHING CLAMP AND VANDAL PROOF TOP.                                                                                                                                                                                                                                                                                                                                                              |  |
| WCO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | WALL CLEANOUT                                                          | J.R. SMITH   | 4532-S-U            | -      | -      | -      | -    | -    | CAST IRON CLEANOUT TEE WITH COUNTERSUNK TAPER THREAD BRONZE-PLUG. STAINLESS STEEL ROUND COVER AND VANDAL PROOF SCREW.                                                                                                                                                                                                                                                                                                                                                                                                           |  |
| GCO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | GRADE CLEANOUT<br>EXTERIOR                                             | J.R. SMITH   | 4103S-F-C-U         | -      | -      | -      | -    | -    | CAST IRON CLEANOUT WITH ROUND, ADJUSTABLE, SCORIATED, SECURED NICKEL BRONZE TOP (HEAVY DUTY). TAPERED THREAD WITH BRONZE PLUG, FLANGE WITH FLASHING CLAMP AND VANDAL PROOF TOP.                                                                                                                                                                                                                                                                                                                                                 |  |
| HB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | FREEZEPROOF<br>HOSE BIBB                                               | WOODFORD     | B65                 | -      | -      | -      | 3/4" | -    | AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH HOSE CONNECTION ANTI-SIPHONE VACUUM BREAKER AND HOUSED IN A TAMPER RESISTANT BRASS BOX. THE HYDRANT DRAINS AS HANDLE IS SHUT OFF, EVEN WITH HOSE ATTACHED. COORDINATE DEPTH WITH WALL THICKNESS. LOOSE TEE KEY FURNISHED WITH EACH HYDRANT.                                                                                                                                                                                                                                    |  |
| NOTES:<br>1) PLUMBING CONTRACTOR SHALL INSTALL ALL PLUMBING FIXTURES AND ACCESSORIES FOR COMPLIANCE WITH AMERICAN DISABILITY ACT (ADA) OR TEXAS ACCESSIBILITY STANDARDS (TAS).<br>2) PLUMBING CONTRACTOR SHALL REFERENCE AND COORDINATE ROUGH-IN DIMENSIONS WITH GENERAL CONTRACTOR BEFORE PURCHASING AND/OR INSTALLING ANY FIXTURES AND ACCESSORIES AND BEFORE PROCEEDING WITH CONSTRUCTION.<br>3) PLUMBING CONTRACTOR SHALL INSTALL FLUSH CONTROL LEVERS/HANDLES ON WIDE SIDE OF TANK FOR ALL WATER CLOSETS TO COMPLY WITH ADA OR TAS STANDARDS.<br>4) PLUMBING CONTRACTOR SHALL INSTALL TRUEBRO PIPE (SUPPLY AND DRAIN) COVERS FOR ALL SINKS AND LAVATORIES (IF REMOVABLE PROTECTIVE PANEL IS NOT PROVIDED ) TO ENSURE ADA AND TAS COMPLIANCE. |                                                                        |              |                     |        |        |        |      |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |

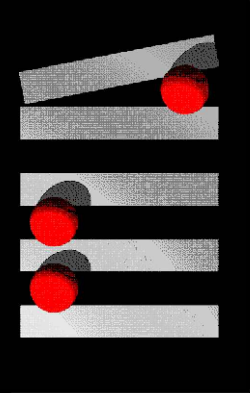


**1 CONDENSATE TO FIXTURE TAILPIECE CONNECTION DETAIL**  
SCALE: NO SCALE

**ADDENDUM ONE:**

CHANGE WATER HEATERS FROM ELECTRIC  
TANK TYPE TO GAS FIRED, INSTANTANEOUS.  
REFER SHEET 13.50 FOR NEW SCHEDULES.

| DOMESTIC HOT WATER CIRCULATION PUMP SCHEDULE                                                                                                                                                                                                                                                                       |        |         |                 |            |            |       |       |    |     |               |          |                     |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|-----------------|------------|------------|-------|-------|----|-----|---------------|----------|---------------------|-------|
| TAG                                                                                                                                                                                                                                                                                                                | SERVES | TYPE    | CAPACITY<br>GPM | HEAD<br>FT | ELECTRICAL |       |       |    |     | WEIGHT<br>LBS | MFG      | MODEL               | NOTES |
|                                                                                                                                                                                                                                                                                                                    |        |         |                 |            | WATTS      | VOLTS | PHASE | HZ | FLA |               |          |                     |       |
| CP1                                                                                                                                                                                                                                                                                                                | WH-1   | IN LINE | 2.0             | 12         | 38         | 115   | 1     | 60 | -   | 4.5           | GRUNDFOS | ALPHA 15-55-SUC/TLC | ALL   |
| CP2                                                                                                                                                                                                                                                                                                                | WH-2   | IN LINE | 2.0             | 12         | 38         | 115   | 1     | 60 | -   | 4.5           | GRUNDFOS | ALPHA 15-55-SUC/TLC | ALL   |
| NOTES:<br>1) EQUAL MANUFACTURER / MODEL MUST COMPLY WITH ALL BASIS OF DESIGN PERFORMANCE, SAFETY, DURABILITY WARRANTY AND SYSTEM DESIGN REQUIREMENTS.<br>2) CIRCULATION PUMP TO BE CERTIFIED TO NSF-61 AND NSF-372 STANDARDS.<br>3) PROVIDE WITH INTEGRATED TEMPERATURE CONTROL TO MAINTAIN TEMPERATURE SETPOINT . |        |         |                 |            |            |       |       |    |     |               |          |                     |       |



7:30 pm Saturday, Oct 25 2025

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ADDENDUM ONE:

CHANGE WATER HEATERS FROM ELECTRIC TANK TYPE TO GAS FIRED, INSTANTANEOUS.

| INSTANTANEOUS GAS WATER HEATER SCHEDULE (3-UNIT SYSTEM) |                                            |                   |           |                   |                       |                  |                     |             |                       |                               |      |      |      |                              |    |    |     |                           |              |               |            |        |          |       |
|---------------------------------------------------------|--------------------------------------------|-------------------|-----------|-------------------|-----------------------|------------------|---------------------|-------------|-----------------------|-------------------------------|------|------|------|------------------------------|----|----|-----|---------------------------|--------------|---------------|------------|--------|----------|-------|
| TAG                                                     | TYPE                                       | NUMBER OF HEATERS | FUEL TYPE | MIN ENERGY FACTOR | GAS CONSUMPTION INPUT |                  | ADJUSTABLE RANGE °F | SETPOINT °F | SYSTEM GPM 100°F RISE | INDIVIDUAL HEATER CONNECTIONS |      |      |      | INDIVIDUAL HEATER ELECTRICAL |    |    |     | INDIVIDUAL HEATR PHYSICAL |              |               |            | MFG    | MODEL    | NOTES |
|                                                         |                                            |                   |           |                   | SYSTEM MIN BTU/h      | SYSTEM MAX BTU/h |                     |             |                       | VENT                          | GAS  | HOT  | COLD | VOLTS                        | HZ | PH | FLA | LENGTH INCHES             | WIDTH INCHES | HEIGHT INCHES | WEIGHT LBS |        |          |       |
| WH1                                                     | INDOOR TANKLESS CONDENSING HIGH EFFICIENCY | 3                 | GAS       | 0.96              | 13,300                | 600,000          | 70 - 140            | 120         | 18.9                  | 2"                            | 3/4" | 3/4" | 3/4" | 120                          | 60 | 1  | 2   | 17.3                      | 13.2         | 28.8          | 73         | NAVIEN | NPE240S2 | ALL   |

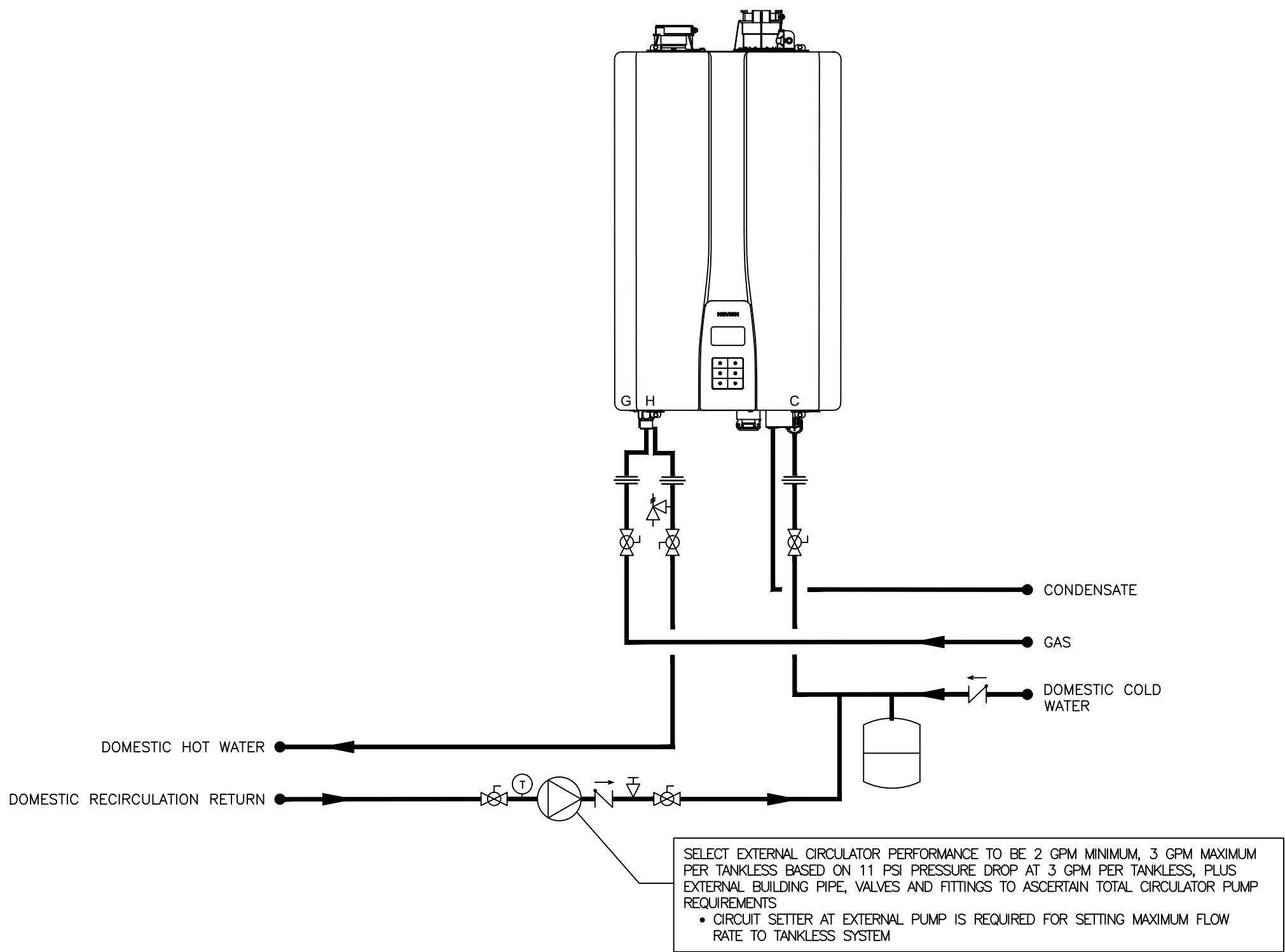
NOTES:  
1) ALTERNATE MANUFACTURER MUST COMPLY WITH ALL BASIS OF DESIGN PERFORMANCE, CONSTRUCTION, FEATURES, OPTIONS, SAFETY, DURABILITY, WARRANTY AND SYSTEM DESIGN REQUIREMENTS.  
2) WATER HEATER SYSTEM SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH ALL APPLICABLE CODES  
3) INDOOR HEATERS SHALL HAVE 2" DIAMETER SCHEDULE 40 CPVC VENT & INTAKE CONNECTED TO COMMON 4" EXHAUST VENT AND COMMON 4" INTAKE PER MANUFACTURER'S REQUIREMENTS.  
4) PROVIDE 2" SCHEDULE 40 STEEL GAS HEADER AND 3-FOOT LONG 3/4" CCST FLEXIBLE GAS LINE TO EACH HEATER.  
5) PROVIDE 2" COPPER HOT AND COLD WATER HEADERS WITH 2-FOOT LONG 3/4" FLEXIBLE STAINLESS STEEL WATER LINES TO EACH HEATER.  
6) PROVIDE ISOLATION VALVES AND 150 PSI PRESSURE RELIEF VALVES FOR EACH HEATER.  
7) PROVIDE NAV-LINK CONTROLS TO LINK ALL HEATERS FOR PROGRAMMING, MODULATION, AND PRIORITY ROTATION FOR MOST EFFICIENT PERFORMANCE.  
8) PROVIDE WITH PIPE COVERS, NEUTRALIZER KIT, AND ISOLATION VALVE KITS.

| INSTANTANEOUS GAS WATER HEATER SCHEDULE (1-UNIT SYSTEM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                            |                   |           |                   |                       |              |                     |             |                       |                               |      |      |      |                              |    |    |     |                           |              |               |            |        |          |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-------------------|-----------|-------------------|-----------------------|--------------|---------------------|-------------|-----------------------|-------------------------------|------|------|------|------------------------------|----|----|-----|---------------------------|--------------|---------------|------------|--------|----------|-------|
| TAG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | TYPE                                       | NUMBER OF HEATERS | FUEL TYPE | MIN ENERGY FACTOR | GAS CONSUMPTION INPUT |              | ADJUSTABLE RANGE °F | SETPOINT °F | SYSTEM GPM 100°F RISE | INDIVIDUAL HEATER CONNECTIONS |      |      |      | INDIVIDUAL HEATER ELECTRICAL |    |    |     | INDIVIDUAL HEATR PHYSICAL |              |               |            | MFG    | MODEL    | NOTES |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                            |                   |           |                   | PER HEATER BTU/h      | SYSTEM BTU/h |                     |             |                       | VENT                          | GAS  | HOT  | COLD | VOLTS                        | HZ | PH | FLA | LENGTH INCHES             | WIDTH INCHES | HEIGHT INCHES | WEIGHT LBS |        |          |       |
| WH2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | INDOOR TANKLESS CONDENSING HIGH EFFICIENCY | 1                 | GAS       | 0.96              | 13,300                | 199,900      | 70 - 140            | 120         | 3.9                   | 2"                            | 3/4" | 3/4" | 3/4" | 120                          | 60 | 1  | 2   | 17.3                      | 13.2         | 28.8          | 73         | NAVIEN | NPE240S2 | ALL   |
| NOTES:<br>1) ALTERNATE MANUFACTURER MUST COMPLY WITH ALL BASIS OF DESIGN PERFORMANCE, CONSTRUCTION, FEATURES, OPTIONS, SAFETY, DURABILITY, WARRANTY AND SYSTEM DESIGN REQUIREMENTS.<br>2) WATER HEATER SYSTEM SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS AND IN ACCORDANCE WITH ALL APPLICABLE CODES<br>3) INDOOR HEATERS SHALL HAVE 2" DIAMETER SCHEDULE 40 CPVC VENT & INTAKE<br>4) PROVIDE ISOLATION VALVES AND 150 PSI PRESSURE RELIEF VALVE.<br>5) PROVIDE WITH PIPE COVERS, NEUTRALIZER KIT, AND ISOLATION VALVE KIT. |                                            |                   |           |                   |                       |              |                     |             |                       |                               |      |      |      |                              |    |    |     |                           |              |               |            |        |          |       |

E1

PLUMBING SCHEDULES

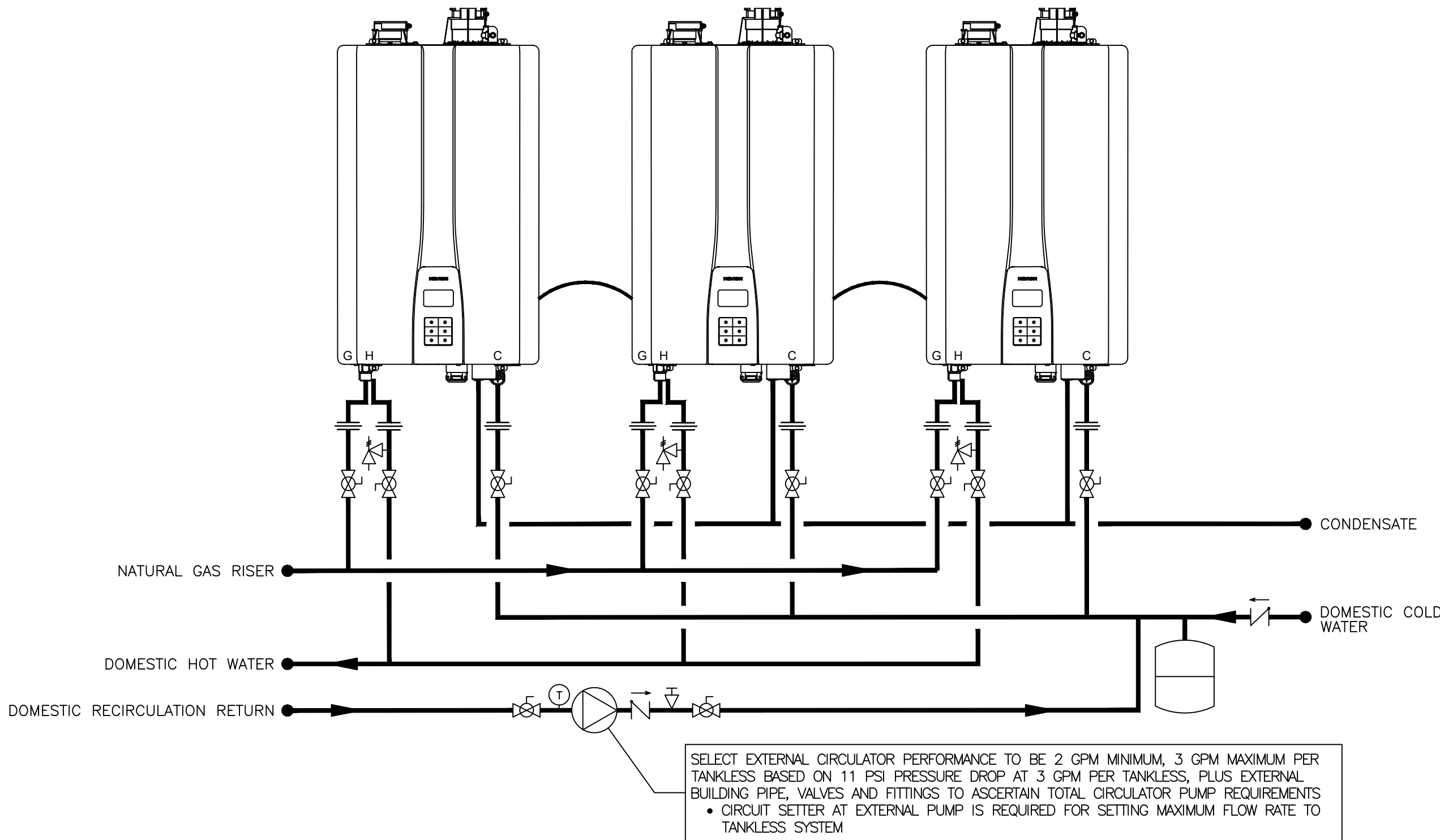
NO SCALE



K1

WATER HEATER "WH2" (ONE UNIT) SCHEMATIC

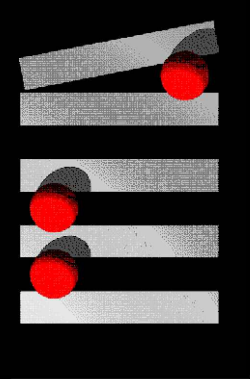
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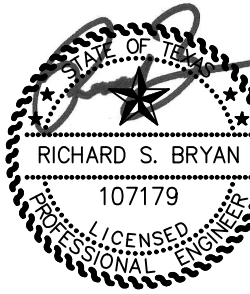
K8

WATER HEATER "WH1" (3-UNIT) SCHEMATIC

NO SCALE



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Bryan Parks & Associates, Inc.  
TEXAS REGISTERED ENGINEERING FIRM # F1596

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13.50

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

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B  
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**ADDENDUM ONE:**  
CHANGE WATER HEATERS FROM ELECTRIC TO GAS FIRED, INSTANTANEOUS.

**GENERAL NOTES**

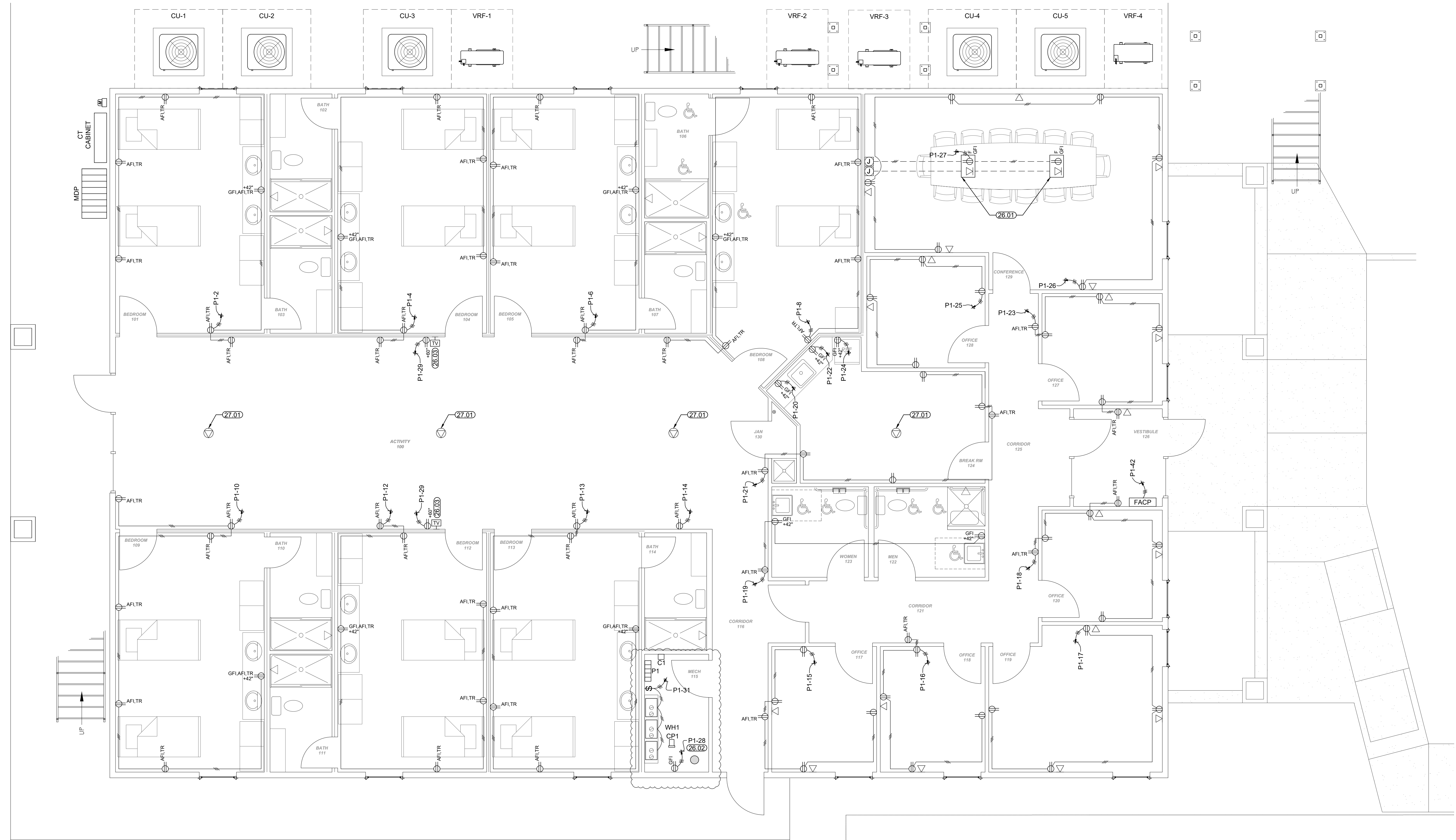
1. CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING.
2. ALL WORK SHALL BE IN COMPLIANCE WITH THE LOCAL GOVERNING AUTHORITY, ADOPTED BUILDING CODES AND AMENDMENTS.
3. REFER TO 11.00 MEP FOR ABBREVIATIONS, LEGENDS & GENERAL NOTES.
4. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL DATA COMMUNICATIONS, AND TELEPHONE CABLE, JACKS, AND FACEPLATES. ALL TELEPHONE CABLE SHALL BE PULLED TO THE TELEPHONE BACKBOARD. ALL DATA COMMUNICATION CABLE SHALL BE PULLED TO SERVER ROOM. ELECTRICAL CONTRACTOR SHALL MAKE TERMINATIONS AT WALL BOX JACKS, AND SHALL MAKE TERMINATIONS TO SERVER ROOM DATA COMMUNICATION EQUIPMENT. ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATIONS WITH OWNER, TELEPHONE AND DATA COMMUNICATION WIRING SHALL BE CAT6 CABLE.

**DIVISION 26 - ELECTRICAL**

- (26.01) 2 GANG FLOOR BOX WITH COVER FOR DUPLEX RECEPTACLE IN ONE SIDE AND DATA/TELEPHONE OUTLET IN OTHER SIDE. EXTEND 1" CONDUIT WITH PULLWIRE FROM DATA/TELEPHONE SIDE TO NEAREST WALL, THEN TURN UP AND EXTEND IN WALL SPACE TO 1'-0" ABOVE CEILING AND TERMINATE WITH NON-METALLIC INSULATION BUSHING AS RACEWAY FOR DATA CABLING BY OTHERS. COORDINATE EXACT LOCATION AND TYPE OF COVER REQUIREMENTS WITH GENERAL CONTRACTOR AT JOBSITE.
- (26.02) RECEPTACLE FOR CIRCULATOR PLUMP. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR AT JOBSITE.
- (26.03) COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF THE OUTLET & TV WITH GENERAL CONTRACTOR AT JOB SITE.

**DIVISION 27 - COMMUNICATIONS**

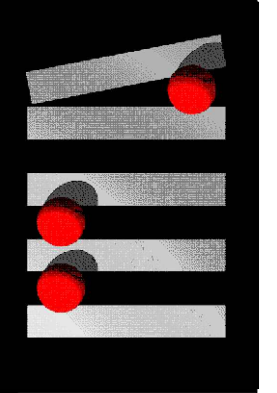
- (27.01) WIRELESS ACCESS POINT MOUNTED TO CEILING



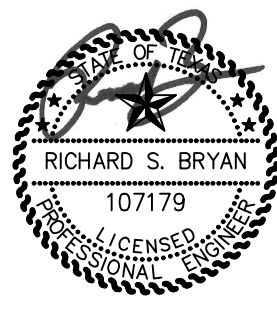
K1

FIRST FLOOR PLAN - POWER

1/4" = 1'-0"



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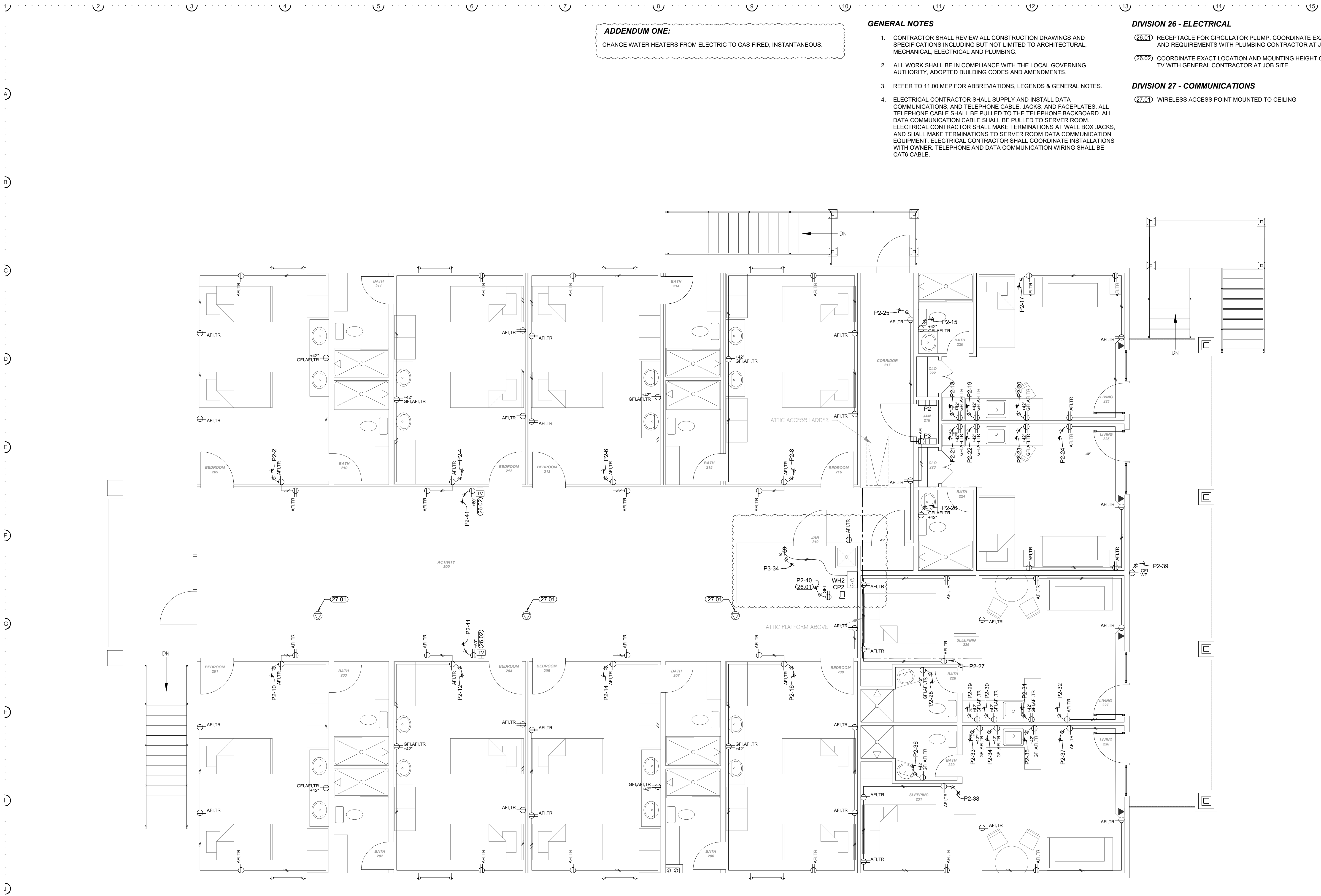
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**ADDENDUM ONE:**  
CHANGE WATER HEATERS FROM ELECTRIC TO GAS FIRED, INSTANTANEOUS.

**GENERAL NOTES**

1. CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING.
2. ALL WORK SHALL BE IN COMPLIANCE WITH THE LOCAL GOVERNING AUTHORITY, ADOPTED BUILDING CODES AND AMENDMENTS.
3. REFER TO 11.00 MEP FOR ABBREVIATIONS, LEGENDS & GENERAL NOTES.
4. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL DATA COMMUNICATIONS, AND TELEPHONE CABLE, JACKS, AND FACEPLATES. ALL TELEPHONE CABLE SHALL BE PULLED TO THE TELEPHONE BACKBOARD. ALL DATA COMMUNICATION CABLE SHALL BE PULLED TO SERVER ROOM. ELECTRICAL CONTRACTOR SHALL MAKE TERMINATIONS AT WALL BOX JACKS, AND SHALL MAKE TERMINATIONS TO SERVER ROOM DATA COMMUNICATION EQUIPMENT. ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATIONS WITH OWNER. TELEPHONE AND DATA COMMUNICATION WIRING SHALL BE CAT6 CABLE.

**DIVISION 26 - ELECTRICAL**

- (26.01) RECEPTACLE FOR CIRCULATOR PLUMP. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH PLUMBING CONTRACTOR AT JOBSITE.
- (26.02) COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF THE OUTLET & TV WITH GENERAL CONTRACTOR AT JOB SITE.

**DIVISION 27 - COMMUNICATIONS**

- (27.01) WIRELESS ACCESS POINT MOUNTED TO CEILING

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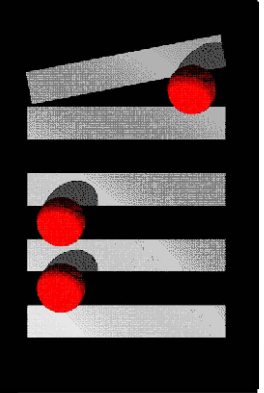


GENERAL NOTES

1. CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE ALARM.
2. ALL WORK SHALL BE IN COMPLIANCE WITH THE LOCAL GOVERNING AUTHORITY, ADOPTED BUILDING CODES AND AMENDMENTS.
3. REFER TO 11.00 MEP FOR ABBREVIATIONS, LEGENDS & GENERAL NOTES.

ADDENDUM ONE:

CHANGE WATER HEATERS FROM ELECTRIC TO GAS FIRED, INSTANTANEOUS.  
REVISED GAS PIPE SIZES.



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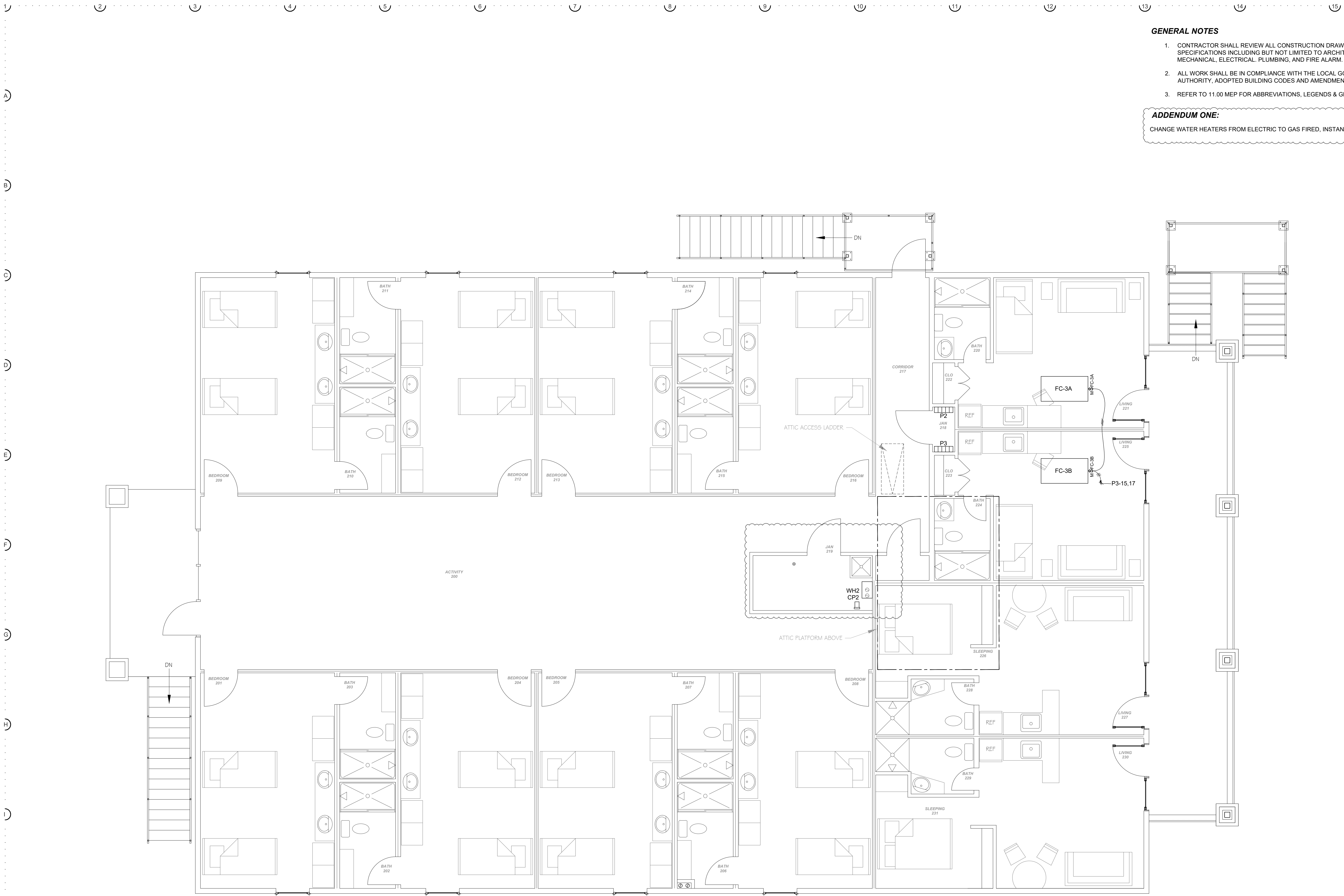
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K1

FIRST FLOOR PLAN - HVAC EQUIPMENT POWER

1/4" = 1'-0"

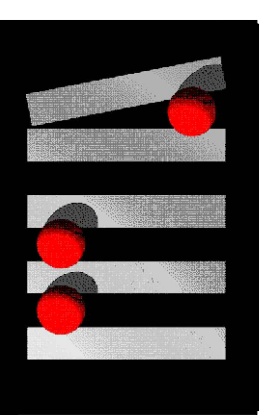


GENERAL NOTES

1. CONTRACTOR SHALL REVIEW ALL CONSTRUCTION DRAWINGS AND SPECIFICATIONS INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE ALARM.
2. ALL WORK SHALL BE IN COMPLIANCE WITH THE LOCAL GOVERNING AUTHORITY, ADOPTED BUILDING CODES AND AMENDMENTS.
3. REFER TO 11.00 MEP FOR ABBREVIATIONS, LEGENDS & GENERAL NOTES.

ADDENDUM ONE:

CHANGE WATER HEATERS FROM ELECTRIC TO GAS FIRED, INSTANTANEOUS.



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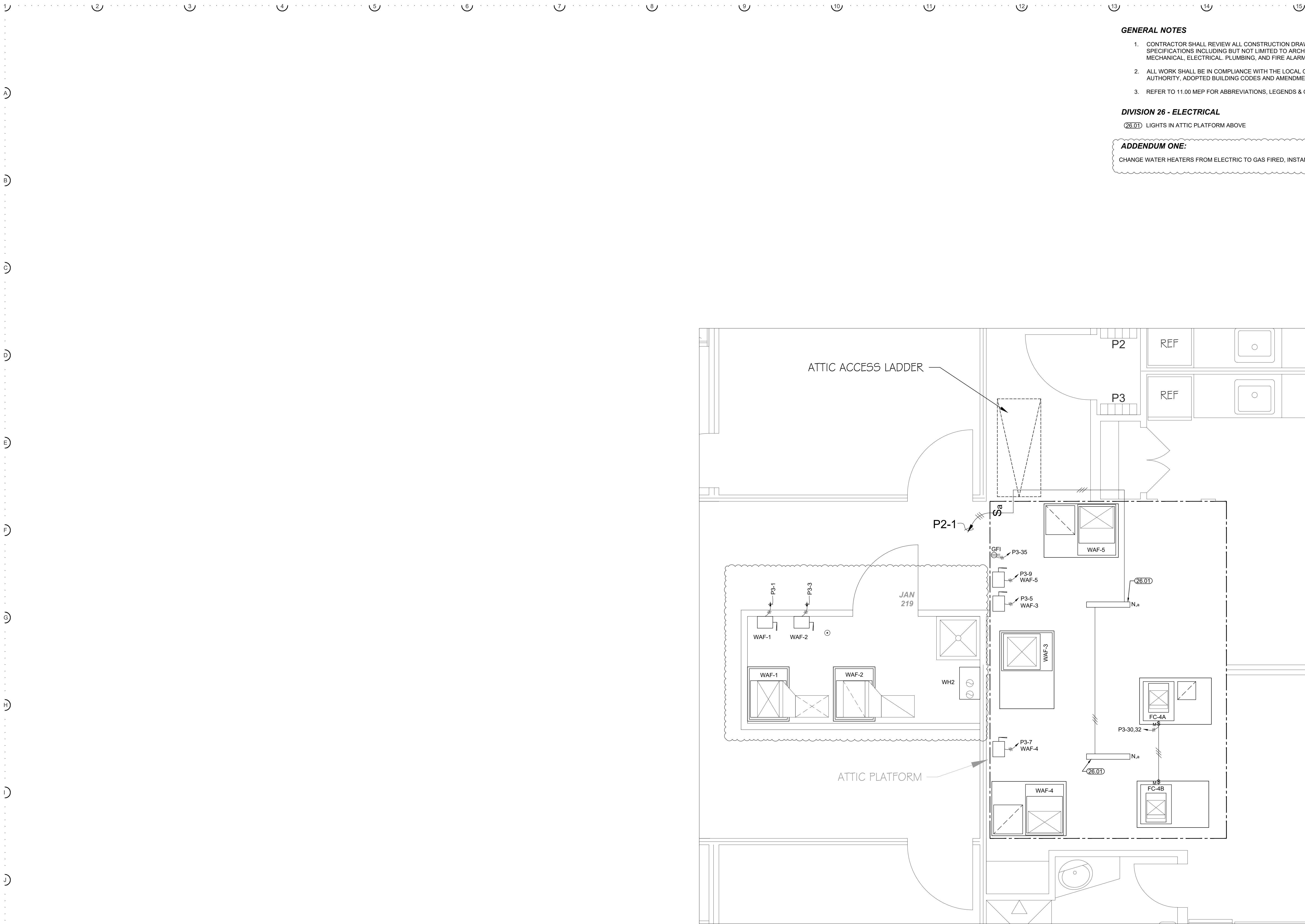
14.31

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K1

SECOND FLOOR PLAN - HVAC EQUIPMENT POWER

1/4" = 1'-0"



**GENERAL NOTES**

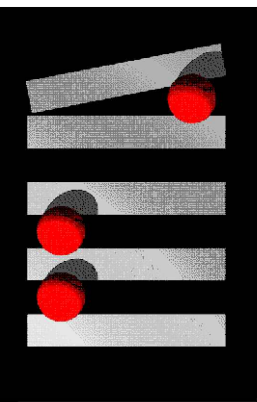
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2. ALL WORK SHALL BE IN COMPLIANCE WITH THE LOCAL GOVERNING AUTHORITY, ADOPTED BUILDING CODES AND AMENDMENTS.
3. REFER TO 11.00 MEP FOR ABBREVIATIONS, LEGENDS & GENERAL NOTES.

**DIVISION 26 - ELECTRICAL**

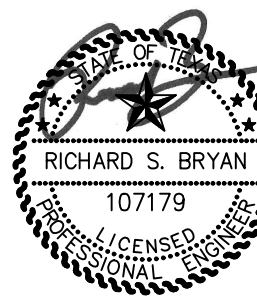
(26.01) LIGHTS IN ATTIC PLATFORM ABOVE

**ADDENDUM ONE:**

CHANGE WATER HEATERS FROM ELECTRIC TO GAS FIRED, INSTANTANEOUS.



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| CONDUIT & CONDUCTOR SCHEDULE - COPPER WIRE |                      |                    |                    |                             |              |
|--------------------------------------------|----------------------|--------------------|--------------------|-----------------------------|--------------|
| ONE LINE TAG                               | NO. OF PARALLEL SETS | SIZE OF CONDUCTORS | SIZE OF GROUND (G) | SIZE OF SERVICE GROUND (SG) | CONDUIT SIZE |
| 20                                         | -                    | #12                | #12                | #8                          | 3/4"         |
| 30                                         | -                    | #10                | #10                | #8                          | 3/4"         |
| 40                                         | -                    | #8                 | #10                | #8                          | 1"           |
| 50                                         | -                    | #6                 | #10                | #8                          | 1"           |
| 60                                         | -                    | #4                 | #10                | #8                          | 1-1/4"       |
| 70                                         | -                    | #4                 | #8                 | #8                          | 1-1/4"       |
| 80                                         | -                    | #3                 | #8                 | #8                          | 1-1/4"       |
| 90                                         | -                    | #2                 | #8                 | #8                          | 1-1/2"       |
| 100 (NOTE 3)                               | -                    | #1                 | #8                 | #6                          | 1-1/2"       |
| 110                                        | -                    | #1                 | #6                 | #6                          | 1-1/2"       |
| 125                                        | -                    | 1/0                | #6                 | #6                          | 2"           |
| 150                                        | -                    | 1/0                | #6                 | #6                          | 2"           |
| 175                                        | -                    | 2/0                | #6                 | #4                          | 2"           |
| 200                                        | -                    | 3/0                | #6                 | #4                          | 3"           |
| 225                                        | -                    | 4/0                | #4                 | #2                          | 3"           |
| 250                                        | -                    | 250 kcmil          | #4                 | #2                          | 3"           |
| 300                                        | -                    | 350 kcmil          | #4                 | #2                          | 3"           |
| 350                                        | -                    | 500 kcmil          | #3                 | 1/0                         | 4"           |
| 400                                        | 2                    | 3/0                | #3                 | 1/0                         | 3"           |
| 500                                        | 2                    | 250 kcmil          | #2                 | 1/0                         | 3"           |
| 600                                        | 2                    | 350 kcmil          | #1                 | 2/0                         | 3"           |
| 700                                        | 2                    | 500 kcmil          | 1/0                | 2/0                         | 4"           |
| 800                                        | 3                    | 300 kcmil          | 1/0                | 2/0                         | 3"           |
| 1000                                       | 3                    | 400 kcmil          | 2/0                | 3/0                         | 4"           |
| 1200                                       | 4                    | 350kcmil           | 3/0                | 4/0                         | 3"           |
| 1600                                       | 5                    | 400 kcmil          | 4/0                | 250kcmil                    | 4"           |
| 2000                                       | 6                    | 400 kcmil          | 250 kcmil          | 300 kcmil                   | 4"           |
| 2500                                       | 7                    | 500 kcmil          | 350 kcmil          | 500 kcmil                   | 4"           |

NOTES

1. ALL FEEDERS ARE 4 WIRE PLUS GROUND, UNLESS NOTED OTHERWISE.

2. OPTIONAL SIZES MAY BE USED WHERE SPECIFIED CONDUIT AND CONDUCTORS ARE NOT FEASIBLE.

3. FOR EQUIPMENT WITH 75°C TERMINATIONS, 100A OR BELOW MAY BE SIZED PER 75°F COLUMN IN TABLE 310.15(B)(16) (RE: 110.14(C)(1)(3)).

4. ALL CONDUCTORS ARE COPPER UNLESS NOTED OTHERWISE.

5. SERVICE GROUND (SG) SIZED PER TABLE 250.102(C)(1).

FEEDER TAG LEGEND

150A 3 IN G

FEEDER AMPERAGE, SEE TABLE ABOVE.

(G) MINIMUM SIZE EQUIPMENT GROUND, TABLE 250.122.

(SG) SERVICE GROUND.

(N) NEUTRAL REQUIRED ( - ) NOT REQUIRED.

# QUANTITY OF PHASE CONDUCTORS.



### GENERAL NOTES

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- ALL WORK SHALL BE IN COMPLIANCE WITH THE LOCAL GOVERNING AUTHORITY, ADOPTED BUILDING CODES AND AMENDMENTS.
- REFER TO 11.00 MEP FOR ABBREVIATIONS, LEGENDS & GENERAL NOTES.

### DIVISION 26 - ELECTRICAL

- (26.01) ELECTRICAL CONTRACTOR SHALL COORDINATE METER AND CT REQUIREMENTS WITH ELECTRIC UTILITY COMPANY.
- (26.02) ELECTRICAL CONTRACTOR SHALL PROVIDE THE FOLLOWING PER NEC 250-50. REFER GROUNDING ELECTRODE SYSTEM DETAIL.
- A) REBAR ADJACENT TO SERVICE ENTRANCE.  
B) DRIVEN 3/4"x10'-0" COPPER WELD ROD.  
C) RIGID FRAME STEEL.  
D) METAL UNDERGROUND WATER PIPE.

### AEP TEXAS RESPONSIBILITIES

- INSTALL 120/208V 150 KVA TOTAL OVERHEAD TRANSFORMER
- INSTALL & TERMINATE CABLES FROM POLE MOUNTED TRANSFORMER TO CT CABINET
- PROVIDE CT'S AND BILLING METER CAN

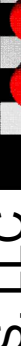
### ELECTRICAL CONTRACTOR RESPONSIBILITIES

- INSTALL (2) 4" GRAY PVC ELECTRICAL GRADE SCHEDULE 40 CONDUIT FROM THE POLE MOUNTED TRANSFORMER POLE TO THE CT CABINET, WITH ANY STUB OUTS BEING SCHEDULE 80 CONDUIT ABOVE GROUND.
- OPEN AND CLOSE DITCH LINES WITH 36" OF COVER OVER THE CONDUIT FROM POLE MOUNTED TRANSFORMER TO CT CABINET. THE DITCH LINES WILL NEED TO BE INSPECTED BY AEP BEFORE COVERING UP THE CONDUIT. A PULL STRING WILL NEED TO BE INSTALLED IN EACH CONDUIT AND INSTALL RED CAUTION TAPE APPROXIMATELY 1' ABOVE CONDUIT.
- INSTALL (2) 4" ELECTRICAL GRADE LONG RADIUS SCHEDULE 40 CONDUITS 6" TO 8" AWAY FROM THE TRANSFORMER POLE.
- FURNISH & INSTALL CT CABINET TO AEP SPECIFICATIONS.
- INSTALL CT'S AND BILLING METER CAN SUPPLIED BY AEP

### ADDENDUM ONE:

CHANGE WATER HEATERS FROM ELECTRIC TO GAS FIRED, INSTANTANEOUS.

K1 ELECTRICAL SCHEDULES  
NTS



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 107179  
 LICENSED PROFESSIONAL ENGINEER  
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10.25.2025

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