

VENTILATION ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AC	AIR CONDITIONER
CD	CEILING DIFFUSER
D	DRAIN
EA	EXHAUST/RELIEF AIR
EF	EXHAUST FAN
F	FURNACE
HP	HEAT PUMP
IF	INLINE FAN
OA	OUTSIDE AIR
PTH	PACKAGED TERMINAL HEAT PUMP
RA	RETURN AIR
RG	RETURN GRILLE
SA	SUPPLY AIR
TG	TRANSFER GRILLE
TD	TRANSFER DUCT
TYP	TYPICAL

VENTILATION SYMBOL LIST	
NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
	FLEXIBLE DUCT
	MANUAL VOLUME DAMPER
	DUCT CAP
	DUCT DOWN
	DUCT UP
	SUPPLY/OUTSIDE AIR DUCT SECTION
	RETURN AIR DUCT SECTION
	EXHAUST/RELIEF AIR DUCT SECTION
CD-1 6/115	AIR TERMINAL PROPERTIES SYMBOL NECK SIZE/CFM
	THERMOSTAT/SENSOR

MECHANICAL GENERAL NOTES:-

- ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES WHEN IN CLOSE PROXIMITY TO EACH OTHER.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND PROVIDE PROPER ACCESS AND CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE.
- SEAL ALL FLOOR, WALL AND ROOF PENETRATIONS AIRTIGHT WHERE DUCT PENETRATE.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, DUCTWORK ETC.
- MANUFACTURER SHOWN IN SCHEDULE IS BASIS OF DESIGN.
- DUCT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARD.
- COORDINATE DIFFUSER, GRILLE AND REGISTER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND EQUIPMENT OF ALL TRADES.
- ALL DUCT SIZES SHOWN ARE INSIDE CLEAR DIMENSIONS.
- DAMPERS AND INSIDES OF DUCT VISIBLE THROUGH GRILLES, REGISTERS AND DIFFUSERS SHALL BE PAINTED FLAT BLACK.
- CONDENSATE DRAIN FROM ALL MECHANICAL EQUIPMENT SHALL BE PROVIDED FOR PROPER DRAINAGE TO SUIT EQUIPMENT FURNISHED.
- ALL DUCTWORK SHOWN ARE SCHEMATICALLY, PROVIDE ALL TRANSITIONS, TURNING VANES, ELBOWS, FITTINGS ETC; TO ALLOW SMOOTH FLOWS.
- VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING GRILLES, REGISTERS, DIFFUSER AND OTHER AIR DISTRIBUTION DEVICES.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO ARCHITECTURAL DRAWINGS FOR RELATED CONSTRUCTION DETAIL AS APPLICABLE TO THE HVAC SYSTEM.
- COORDINATE LOCATION OF ROOF PENETRATIONS WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS NOTED OTHERWISE.

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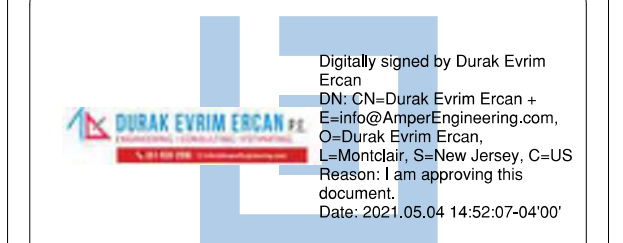
APPLICABLE CODES	
EDITION	CODES
2018	INTERNATIONAL MECHANICAL CODE (IMC)
2018	INTERNATIONAL PLUMBING CODES (IPC)

MECHANICAL SHEET INDEX	
SHEET NUMBER	SHEET NAME
M100	MECHANICAL COVER SHEET
M101	FIRST FLOOR & SECOND FLOOR MECHANICAL PLAN
M102	ROOF MECHANICAL PLAN
M201	MECHANICAL DETAILS
M301	MECHANICAL SCHEDULES

SEAL & SIGNATURE:



NO ALTERATION PERMITTED EXCEPT AS PROVIDED UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.



REV.	DATE	DESCRIPTION
0	05/04/2021	ISSUED FOR APPROVAL

CLIENT: _____

PROJECT: **NGTON
S LIVING
CENTER ASSISTED**

ADDRESS: _____ RD
LITTLE ROCK, AR 72211

PROJECT NUMBER:
1297

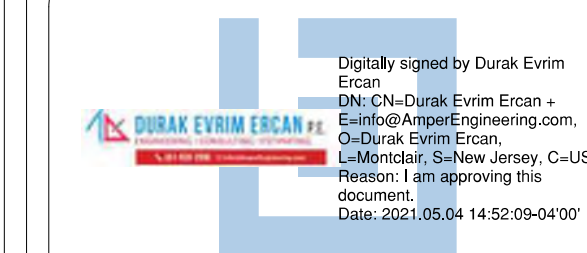
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DESIGNED BY: DEE	CHECKED BY: DEE

DRAWING TITLE:
**MECHANICAL COVER
SHEET & SCHEDULES**

DRAWING NO:
M100



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PROJECT NUMBER:
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PAPER SIZE:
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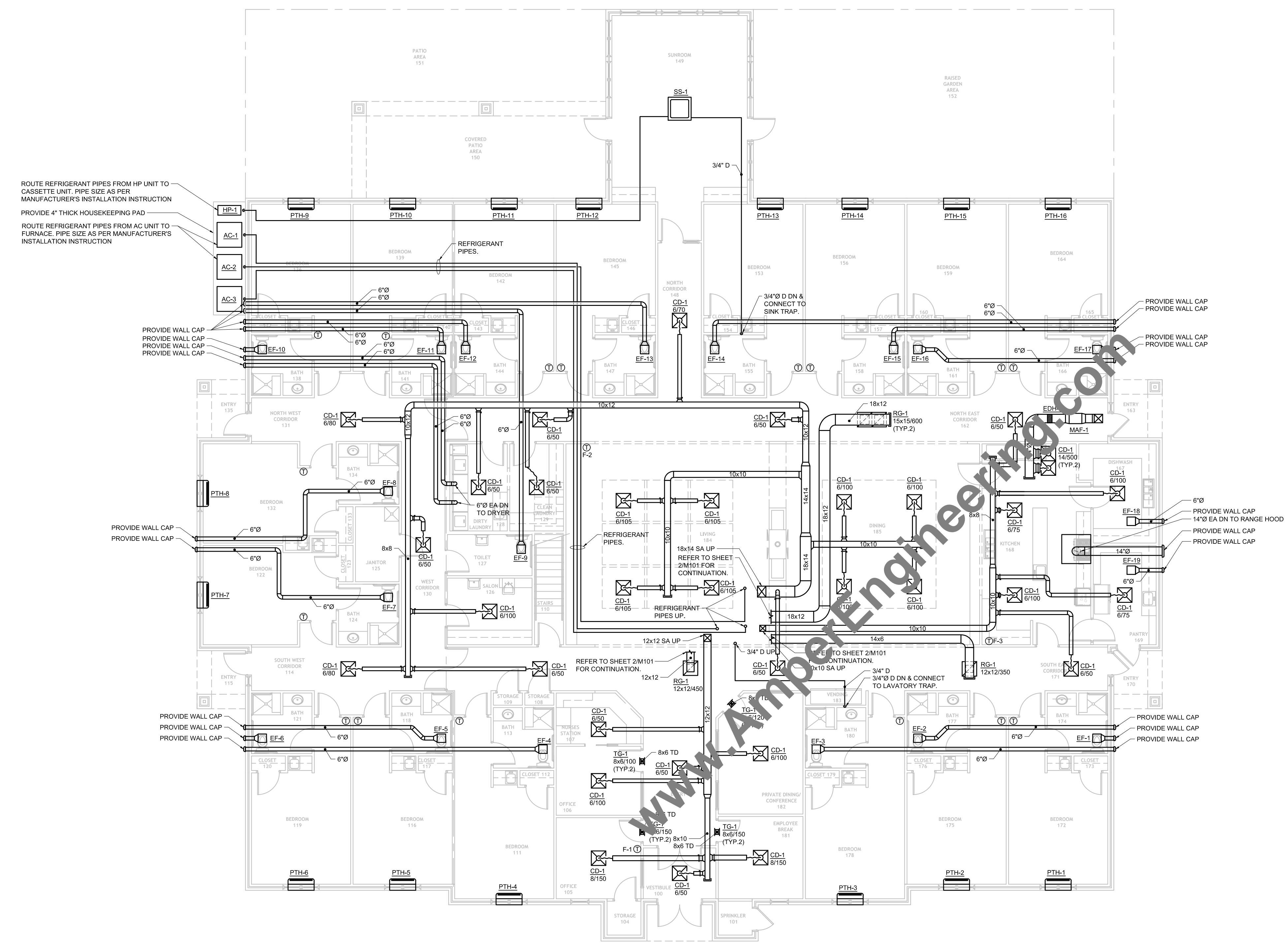
DESIGNED BY:
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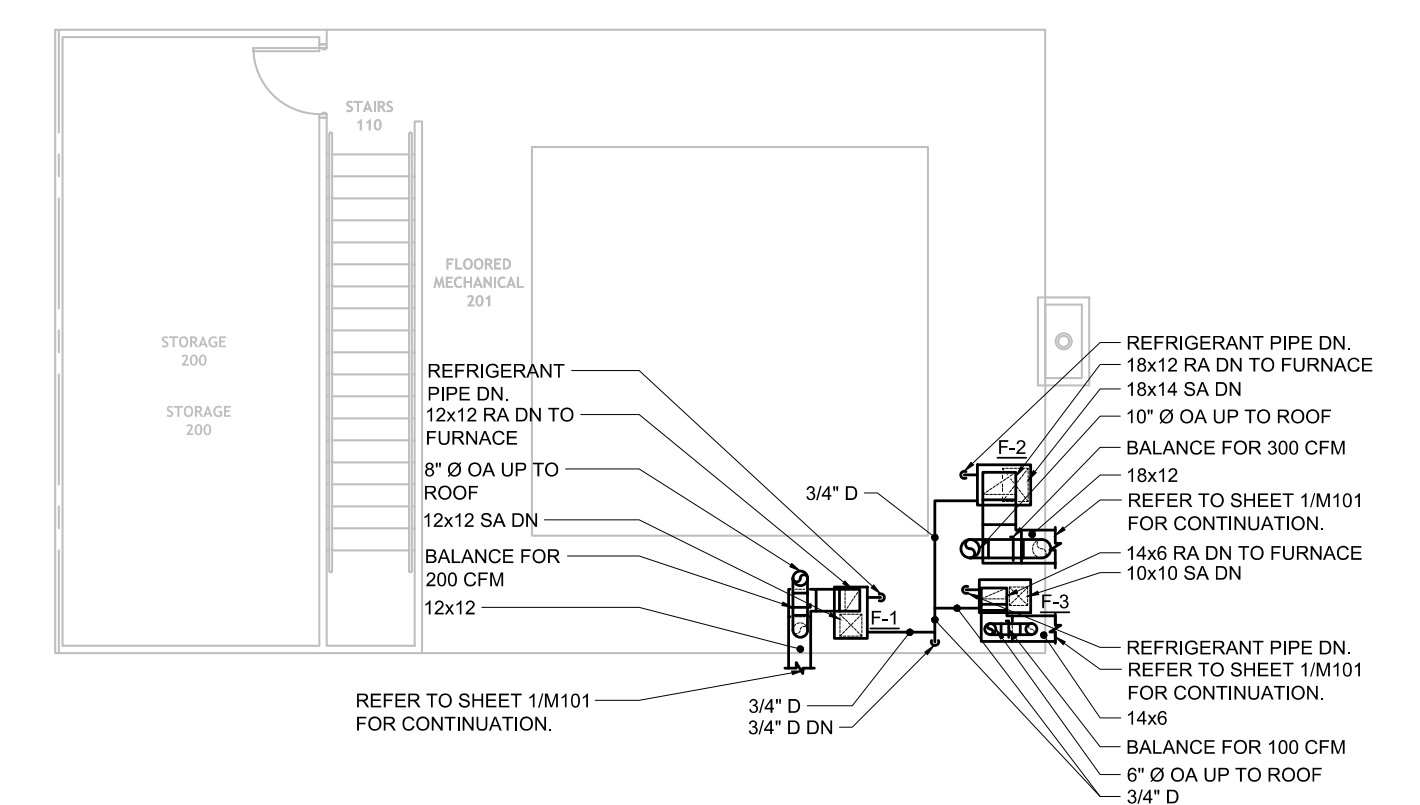
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DRAWING TITLE:
**FIRST FLOOR &
 SECOND FLOOR
 MECHANICAL PLAN**

DRAWING NO:
M101



1 FIRST FLOOR MECHANICAL PLAN
 M101 SCALE: 1/8" = 1'-0"



2 SECOND FLOOR MECHANICAL PLAN
 M101 SCALE: 1/8" = 1'-0"

ROUTE REFRIGERANT PIPES FROM HP UNIT TO CASSETTE UNIT. PIPE SIZE AS PER MANUFACTURER'S INSTALLATION INSTRUCTION
 PROVIDE 4" THICK HOUSEKEEPING PAD

PROVIDE WALL CAP
 PROVIDE WALL CAP
 PROVIDE WALL CAP

PROVIDE WALL CAP
 PROVIDE WALL CAP
 PROVIDE WALL CAP

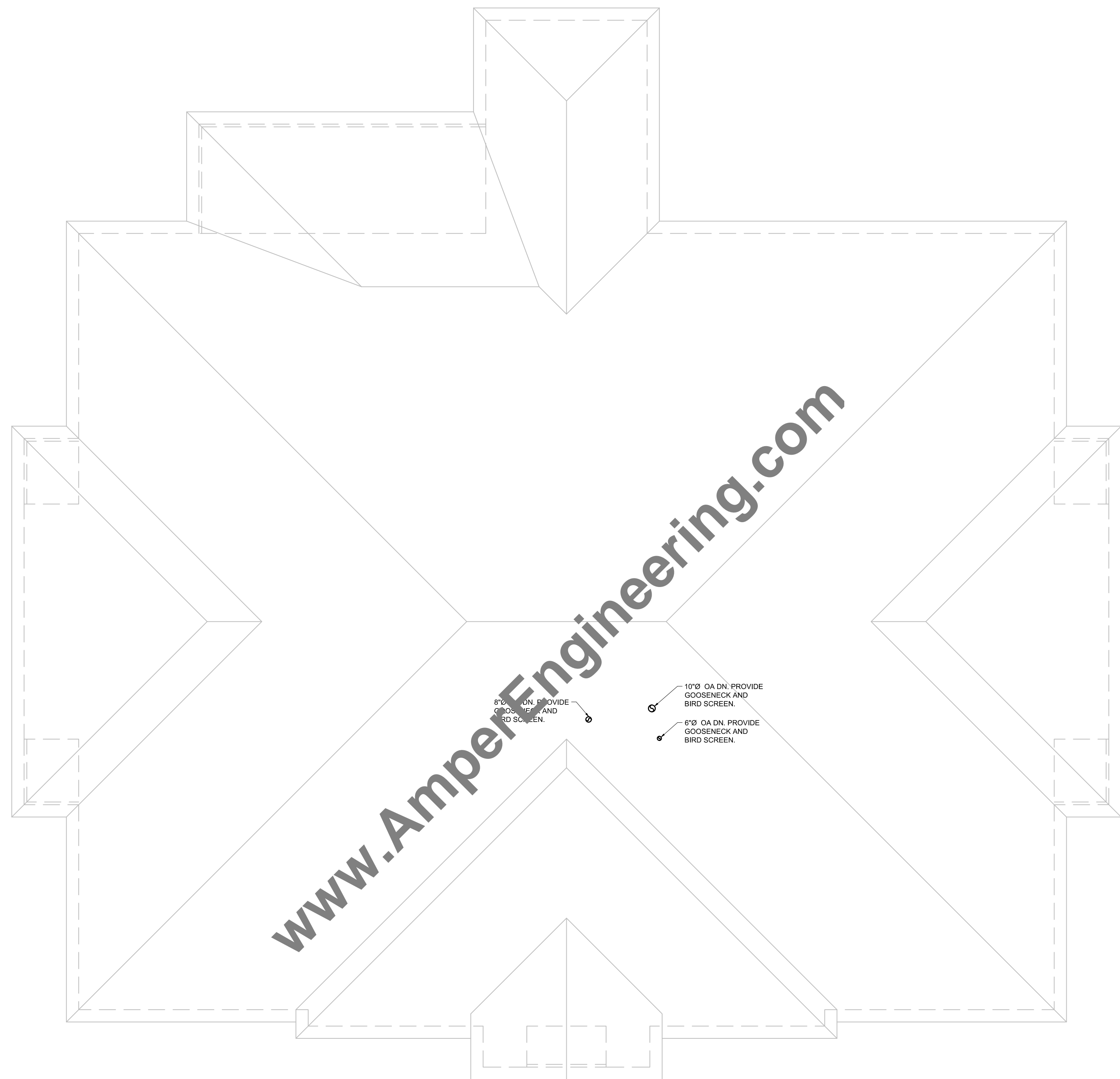
PROVIDE WALL CAP
 PROVIDE WALL CAP

PROVIDE WALL CAP
 PROVIDE WALL CAP
 PROVIDE WALL CAP

PROVIDE WALL CAP
 PROVIDE WALL CAP
 PROVIDE WALL CAP

REFRIGERANT PIPE DN.
 18x12 RA DN TO FURNACE
 18x14 SA DN
 10" Ø OA UP TO ROOF
 18x12
 REFER TO SHEET 1M101 FOR CONTINUATION.
 14x8 RA DN TO FURNACE
 10x10 SA DN
 12x12

REFRIGERANT PIPE DN.
 REFER TO SHEET 1M101 FOR CONTINUATION.
 14x8
 BALANCE FOR 100 CFM
 6" Ø OA UP TO ROOF
 3/4" D



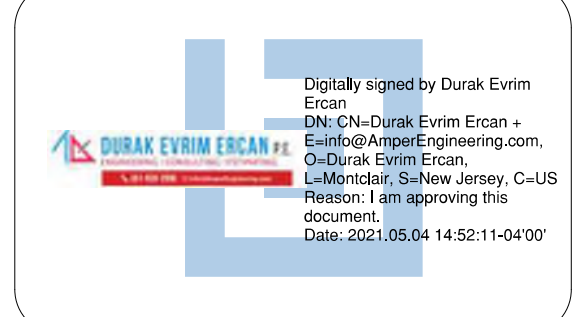
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- 8'0" O.A. DN. PROVIDE GOOSENECK AND BIRD SCREEN.
- 10'0" O.A. DN. PROVIDE GOOSENECK AND BIRD SCREEN.
- 6'0" O.A. DN. PROVIDE GOOSENECK AND BIRD SCREEN.

1 ROOF FLOOR MECHANICAL PLAN
M102 SCALE: 1/8" = 1'-0"



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CLIENT: 3

PROJECT: **NGTON
S LIVING
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ADDRESS: 3E RD
LITTLE ROCK, AR 72211

PROJECT NUMBER: 1297

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DRAWING TITLE:
**ROOF FLOOR
MECHANICAL PLAN**

DRAWING NO:
M102

SEAL & SIGNATURE:

 05/04/2021
Durak Evrim Ercan

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Digitally signed by Durak Evrim Ercan
 DN: cn=Durak Evrim Ercan, email=Durak@AmperEngineering.com, o=Durak Evrim Ercan, ou=AmperEngineering, c=US
 Reason: I am approving this document.
 Date: 2021.05.04 14:52:12-0400'

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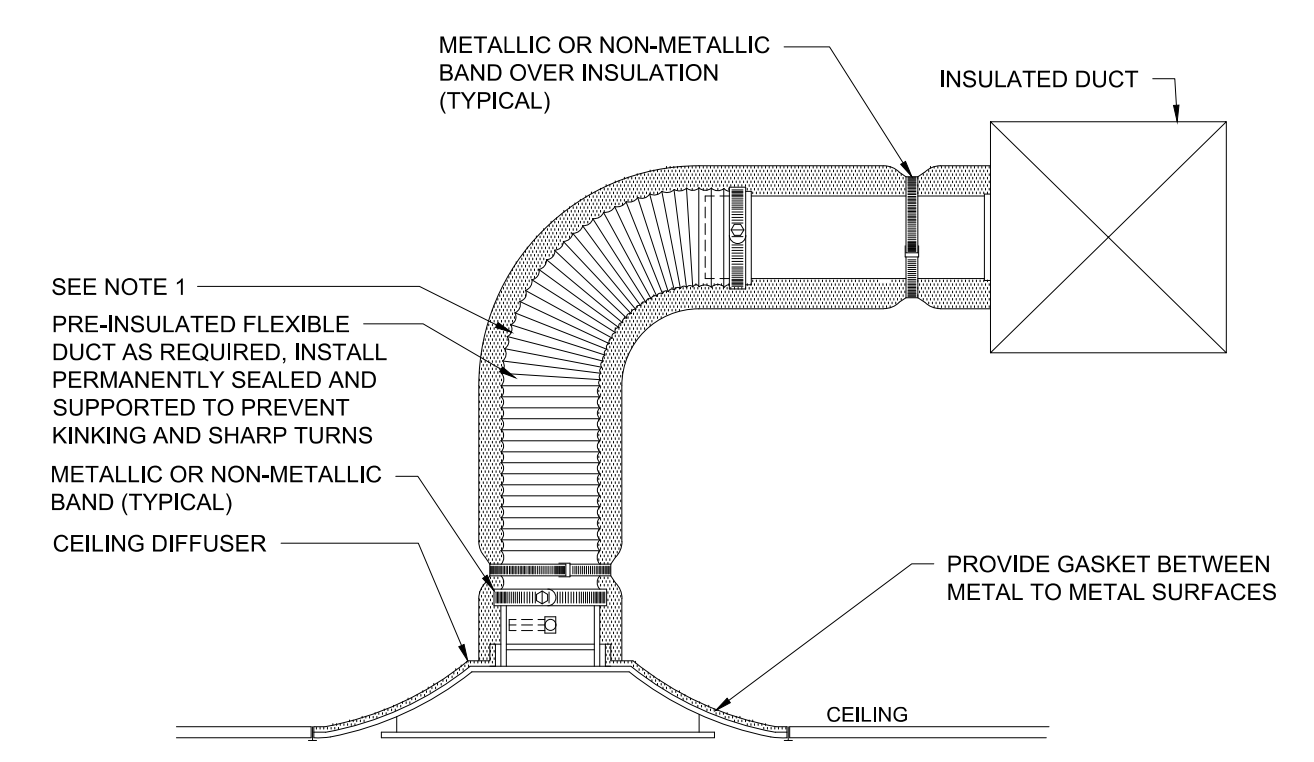
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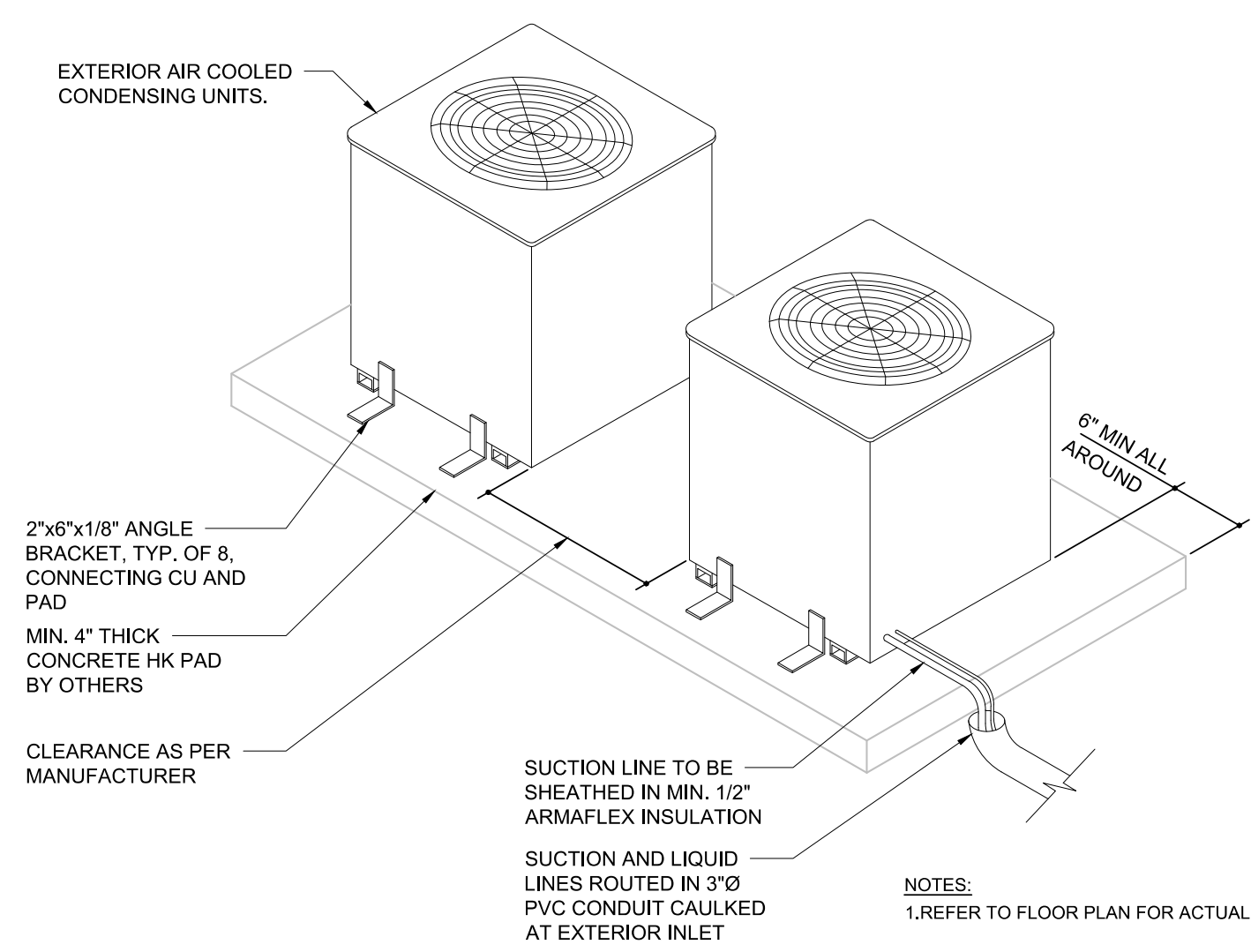
DRAWING TITLE:
MECHANICAL DETAILS

DRAWING NO:
M201

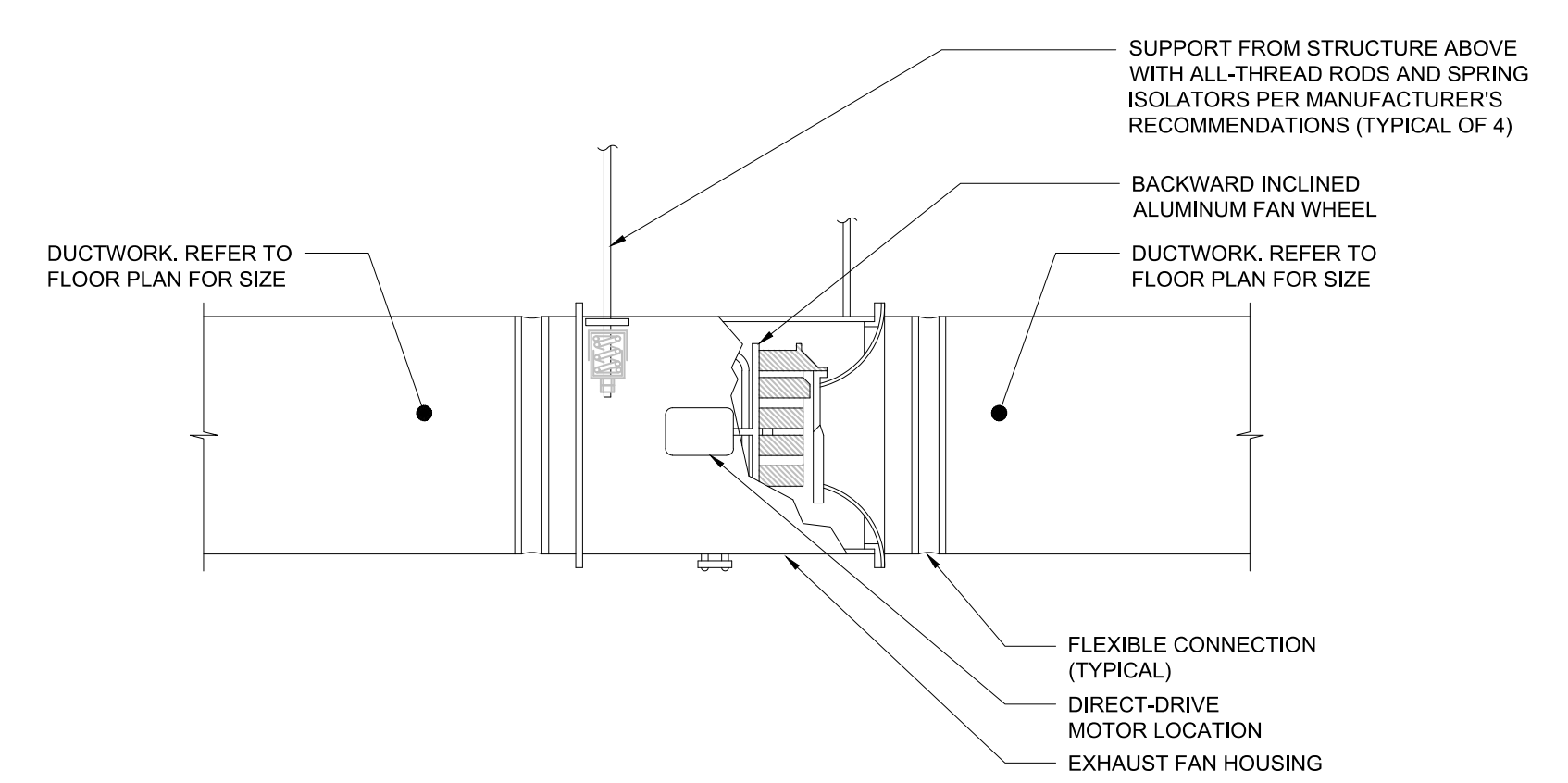


NOTES:
 1. EXTEND HARD METAL DUCT SO THAT MAXIMUM FLEXIBLE DUCT LENGTH DOES NOT EXCEED 3'-0". PROVIDE RIGID 90° ELBOW WHERE REQUIRED TO KEEP FLEXIBLE DUCT WITHIN 3'-0" LENGTH LIMITATION.

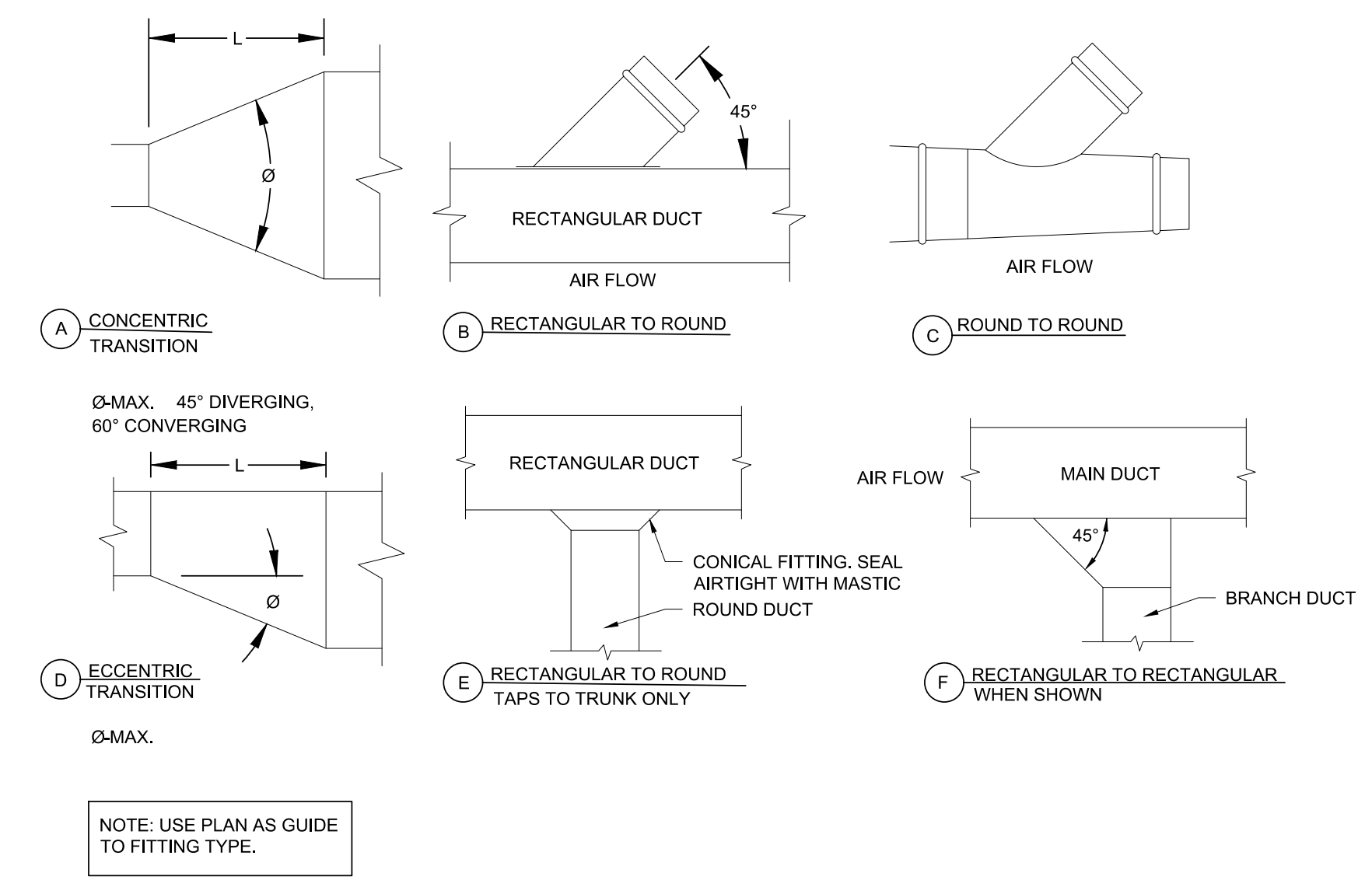
1 CEILING DIFFUSER DETAIL
 M201 SCALE: NTS



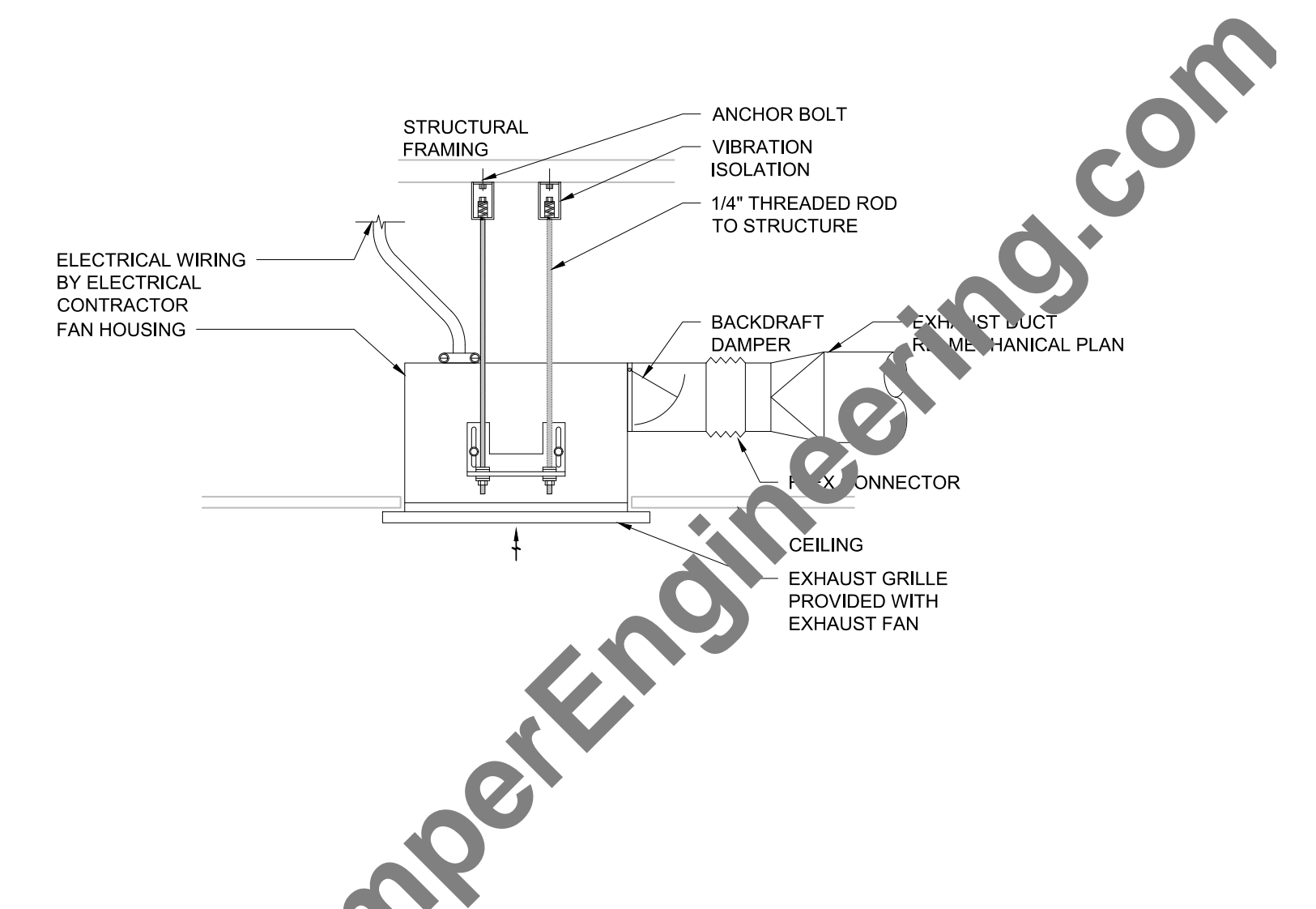
4 AIR CONDENSING UNIT DETAIL
 M201 SCALE: NTS



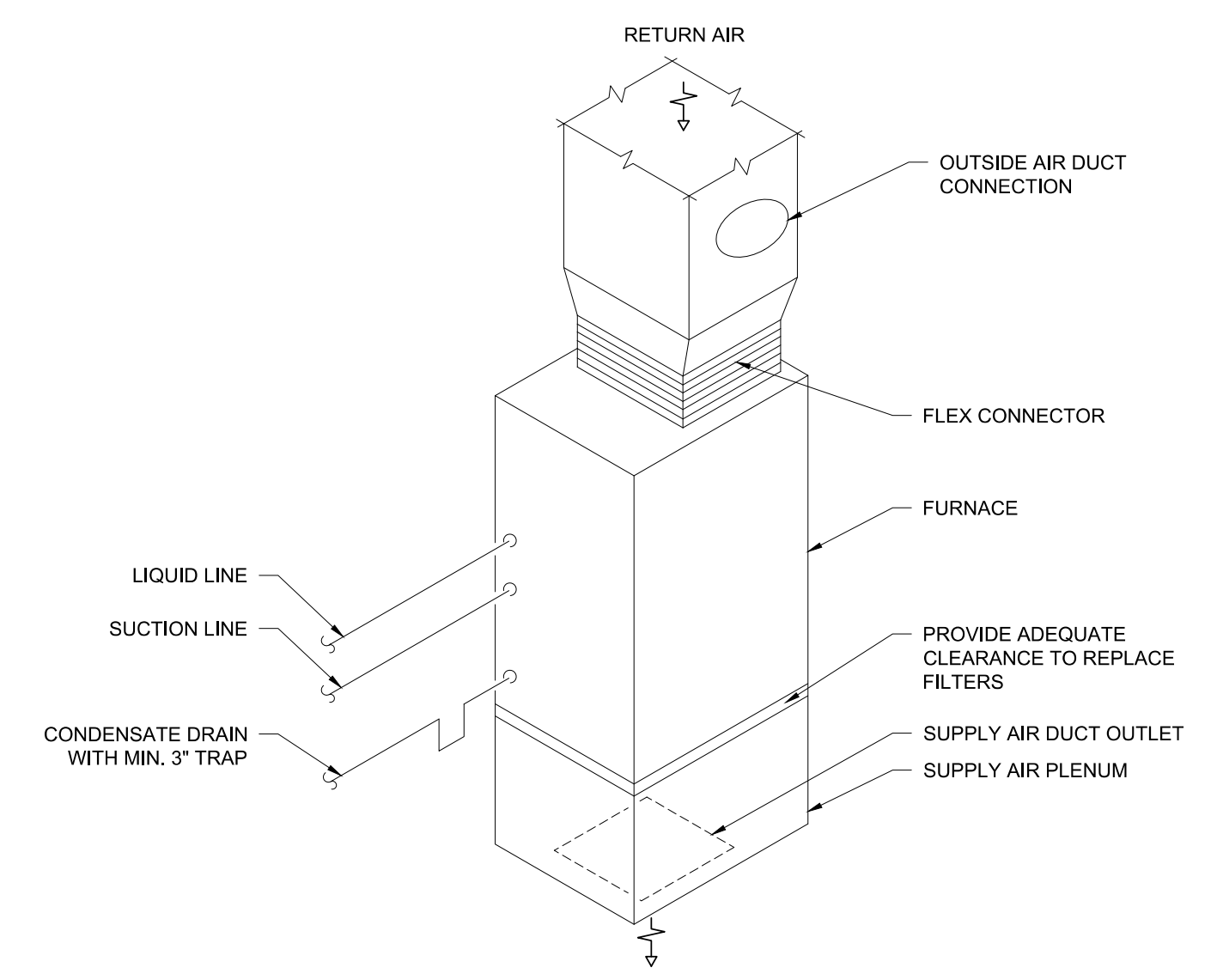
7 INLINE MAKEUP AIR FAN DETAIL
 M201 SCALE: NTS



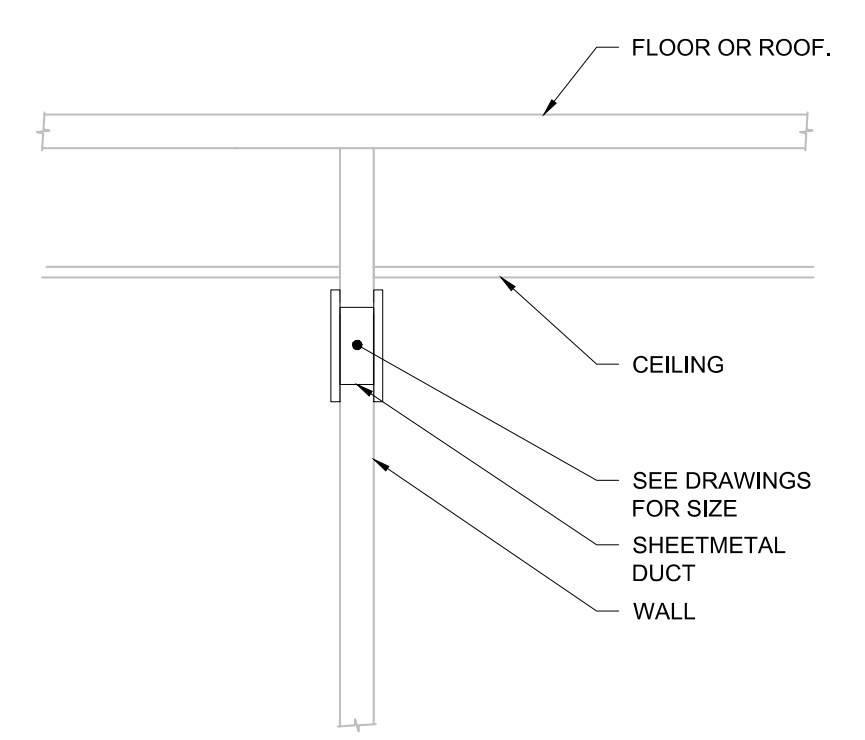
2 DUCT TAKE OFF DETAIL
 M201 SCALE: NTS



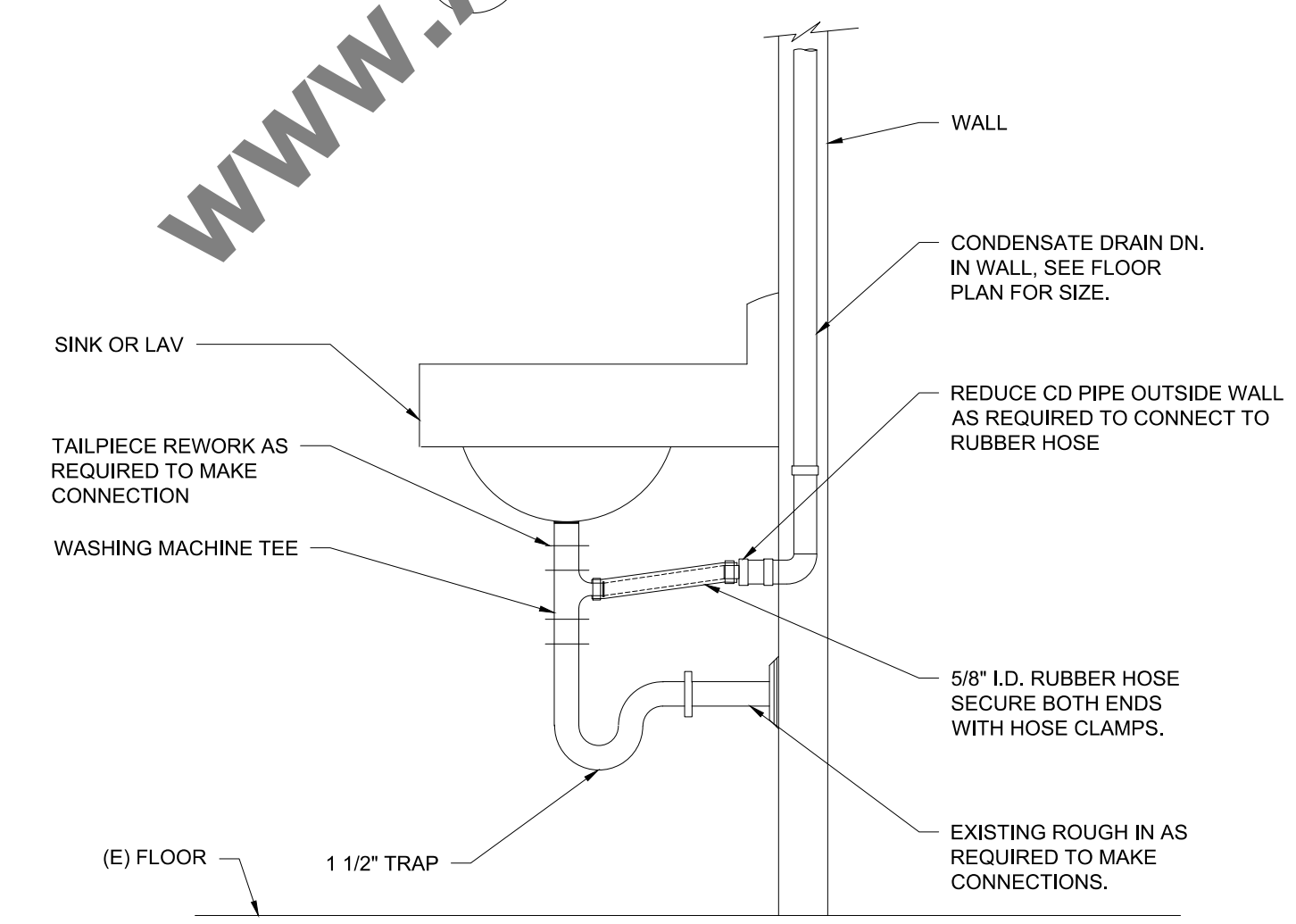
5 CEILING EXHAUST FAN DETAIL
 M201 SCALE: NTS



3 FURNACE DETAIL
 M201 SCALE: NTS



6 TRANSFER DUCT DETAIL
 M201 SCALE: NTS



8 CONDENSATE DRAIN CONNECTION TO TAILPIECE
 M201 SCALE: NTS

GENERAL NOTES:

- 1. THIS DESIGN MAY BE USED FOR SECURING PERMITS, BID, PLANNING, THE COMPANY'S REVIEW OR SOME OTHER GOAL. THIS DESIGN DOES NOT GUARANTEE THESE APPROVALS, NOR ARE THESE APPROVALS A REQUIREMENT FOR SERVICES OR THE COMPLETION OF THIS WORK.
2. THIS DESIGN IS NOT A COMPLETE SET OF CONSTRUCTION DRAWING OR SHOP DRAWINGS. THIS DESIGN REPRESENTS DIAGRAMMATIC REPRESENTATION OF INTENDED SCOPE OF WORK.
3. THE SYMBOLS AND ABBREVIATIONS LIST ON THIS SHEET IS A COMPREHENSIVE STANDARD GUIDE INTENDED FOR GENERAL USE ON ALL PROJECTS. THEREFORE, NOT ALL THE SYMBOLS AND ABBREVIATIONS CONTAINED IN THIS LIST ARE NECESSARILY USED ON THIS PARTICULAR PROJECT AND SHOULD BE USED FOR CLARIFICATION ONLY.
4. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE NATIONAL ELECTRICAL CODE, IECC, LIFE SAFETY CODE, LOCAL BUILDING CODE, OSHA REGULATIONS, LOCAL STATE, FEDERAL AND AUTHORITY HAVING JURISDICTION CODES APPLICABLE AT THE TIME OF THE CONSTRUCTION.
5. GENERAL WORK PRACTICES FOR ELECTRICAL CONSTRUCTION SHALL BE IN ACCORDANCE WITH NECA 1 STANDARD FOR GOOD WORKMANSHIP IN ELECTRICAL CONSTRUCTION (ANSI)
6. ALL MATERIALS PROVIDED BY THE CONTRACTOR SHALL BE NEW AND FREE OF DEFECTS, LISTED/LABELLED FOR THE INTENDED PURPOSE BY UNDERWRITERS (UL) OR OTHER ORGANIZATION THAT IS ACCEPTABLE TO THE AHI.
7. THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS ARE INTENDED TO DESCRIBE AND ILLUSTRATE SYSTEMS WHICH WILL NOT INTERFERE WITH THE STRUCTURE OF THE BUILDING AND WHICH WILL FIT INTO THE AVAILABLE SPACES. THE CONTRACTOR IS RESPONSIBLE FOR CAREFULLY LAYING OUT ALL WORK TO CONFORM TO NATIONAL ELECTRICAL CODE CLEARANCES, ARCHITECTURAL, STRUCTURAL, MECHANICAL AND SITE CONDITIONS, TO AVOID OBSTRUCTIONS AND TO ALLOW THE PROPER INSTALLATION OF EACH ITEM.
8. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT ONLY. COORDINATE WITH DRAWINGS OF OTHER TRADES TO FIT THE ACTUAL SPACE CONDITIONS, HEADROOM AND SPACE CONDITION TO BE MAINTAINED.
9. THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATION AND DETAILS OF THE WORK TO BE INSTALLED.
10. UPON THE COMPLETION OF THE WORK, THE ENTIRE ELECTRICAL SYSTEM SHALL BE TESTED AND SHALL BE SHOWN TO BE IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE INTENT OF THE SPECIFICATIONS AND DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL SYSTEM READY FOR OPERATION AND INSPECTION BY AHI.
11. TEST AND INSPECT ALL WIRING AND EQUIPMENT INSTALLED UNDER THIS SECTION OF SPECIFICATIONS. ALL WIRING MUST BE FREE SHORTS AND BROKEN WIRE. LEAVE ALL MATERIALS AND APPARATUS IN PROPER AND SATISFACTORY WORKING CONDITIONS.
12. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE CORRECT PHASE SEQUENCE OF ALL THREE-PHASE FEEDERS AND BRANCH CIRCUITS. VERIFY PROPER ROTATION OF ALL MOTORS.
13. CONDUIT RUNS WHEN SHOWN ARE DIAGRAMMATICAL. FINAL LOCATION AND ROUTING SHALL BE ESTABLISHED BY THE CONTRACTOR BASED ON THE INSTALLATION CONDITIONS AND SHALL BE VERIFIED IN THE FIELD. ALL CONDUIT TYPES AND INSTALLATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.
14. CONDUIT RUNS SHALL BE PARALLEL WITH OR AT RIGHT ANGLES TO WALLS AND CEILINGS. CONDUIT SHALL BE SUPPORTED BY APPROVED MEANS. ALL EMPTY CONDUITS SHALL BE PROVIDED WITH A DRAG WIRE.
15. PROVIDE CONDUIT EXPANSION FITTINGS WITH BONDING JUMPERS FOR ALL CONDUITS PASSING THROUGH EXPANSION JOINTS.
16. THE USE OF FLEXIBLE CONDUIT FROM LIGHTING FIXTURES TO JUNCTION BOX IS PERMITTED ONLY WHEN A SEPARATE GROUND WIRE IS INSTALLED WITH THE CONDUCTORS INSIDE FLEXIBLE CONDUIT. THE GROUND WIRE MUST BOND THE FIXTURE HOUSING TO THE JUNCTION BOX. MAXIMUM LENGTH SHALL BE 6'-0".
17. FLEXIBLE CONDUIT INSTALLED OUT OF DOORS, IN ANY MECHANICAL EQUIPMENT ROOMS, OR IN NORMALLY WET AREAS SHALL BE LIQUID TIGHT FLEX WITH SUITABLE FITTINGS.
18. PROVIDE CONDUIT, WIRING, CIRCUITING AND REQUIRED CONNECTIONS TO ALL DEVICES, FIXTURES AND EQUIPMENT. CONNECT TO CIRCUITS AS INDICATED. CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD AND REFLECTED IN THE PANEL SCHEDULE DIRECTORY AND ON THE AS-BUILT DRAWINGS.
19. CONTRACTOR SHALL VERIFY AND COORDINATE ALL MOUNTING HEIGHTS OF ALL DEVICES MOUNTED IN CASEWORK OR IN ABOVE COUNTERS WITH EXISTING EQUIPMENT.
20. UNLESS SPECIFICALLY DIRECTED OTHERWISE, FURNISH AND INSTALL EACH AND EVERY ITEM CONTAINED IN AND ASSOCIATED WITH, THE WORK INVOLVED AS SHOWN ON THE DRAWINGS AND/OR DESCRIBED IN THE ACCOMPANYING SPECIFICATIONS, TOGETHER WITH ALL APPURTENANCES, COMPONENTS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. CONTRACTOR SHALL PROVIDE CONDUIT, WIRING AND CABLES TO ALL DEVICES, FIXTURES AND ETC. FOR A COMPLETE WORKING SYSTEM BASED ON THE CIRCUITS NOTED.
21. PROVIDE INDEPENDENT SUPPORT FOR DISCONNECT SWITCHES, CONTROL STATIONS, BOXES, PANELS, ETC. WHERE NO WALLS OR OTHER STRUCTURAL SURFACE EXISTS.
22. EQUIPMENT SIZED AND LOCATIONS ARE APPROXIMATE. ACTUAL DIMENSIONS TO BE DETERMINED BY EQUIPMENT FURNISHED.
23. PROVIDE BRANCH CIRCUIT WIRING TO ALL ITEMS REQUIRING ELECTRICAL CONNECTIONS. WHERE BRANCH CIRCUIT WIRING IS NOT SHOWN, CONNECT ITEMS TO CIRCUITS INDICATED. THE CONTRACTOR SHALL DETERMINE EXACT ROUTING OF CONDUITS AND WIRING, UNLESS INDICATED OTHERWISE. ALL BRANCH CIRCUITS SHALL BE MINIMUM #12 AWG.
24. PROVIDE JUNCTION BOX FOR ANY DEVICE WITH PIG TAIL, SUCH AS SOLENOID VALVES, LIMIT SWITCHES, SMOKE DETECTORS AND ETC. FOR PROPER ELECTRICAL CONNECTION. PROVIDE ALL HARDWARE FOR MOUNTING OF JUNCTION BOX.
25. EXACT LOCATION OF MECHANICAL AND PLUMBING EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS. COORDINATE WITH MECHANICAL AND PLUMBING CONTRACTORS.
26. WHEREVER THE INSTALLATION OF ELECTRICAL EQUIPMENT AS SHOWN ON THE DRAWINGS IS IMPRACTICAL DUE TO LOCAL INTERFERENCE OR UNFORESEEN FIELD CONDITIONS, THE CONTRACTOR SHALL INSTALL THE EQUIPMENT AT NEW LOCATIONS AS DIRECTED BY THE ENGINEER.
27. DESIGN IS BASED ON ALL CONDUCTORS TO BE THIN COPPER AND NO MORE THAN 4 CURRENT CARRYING CONDUCTORS IN THE SAME RACEWAY OR CONDUIT, UNLESS OTHERWISE NOTED.
28. WHEN EQUIPMENT IS BEING REMOVED/DIEMO FROM THE FIELD, ALL WIRING ASSOCIATED WITH THE LOAD MUST BE REMOVED FROM THE JUNCTION BOX OR THE CIRCUIT BREAKER. DO NOT LEAVE UNUSED CONDUCTORS IN THE FIELD WITH ENDS TAPED WITH TAPE OR WIRE NUTS.
29. PROVIDE DISCONNECT SWITCHES FOR ELECTRICAL HEATER, HVAC EQUIPMENT AND EXHAUST FANS WITHIN EYE SIGHT OF THE EQUIPMENT.
30. PROVIDE SERVICE RECEPTACLE WITHIN 25 FEET OF EACH HVAC EQUIPMENT.

- 31. ELECTRICAL CONTRACTOR TO VERIFY ACTUAL INSTALLED EQUIPMENT ELECTRICAL NAME PLATE DATA BEFORE ENERGIZING THE CIRCUIT. CONFIRM ELECTRICAL DESIGN VALUES AND ACTUAL EQUIPMENT BEING INSTALLED ARE IN COMPLIANCE WITH ELECTRICAL CODE AND MANUFACTURER INSTALLATION REQUIREMENTS.
32. DISCONNECT SWITCHES SHALL BE HEAVY-DUTY, QUICK-MADE, QUICK-BREAK TYPE, NEMA 1 ENCLOSURE FOR INDOOR LOCATIONS (NEMA 3R FOR OUTDOOR LOCATIONS). SWITCHES SHALL BE AS MANUFACTURED BY SQUARE D, GENERAL ELECTRIC, OR SIEMENS (I.T.E.), PROVIDE FUSES AS MANUFACTURED BY BUSSMAN, GOULD-SHAMMUT, OR LITTLE-FUSE. ALL CONDUCTOR TERMINALS TO BE U.L. LISTED FOR A MINIMUM OF 75°C. SWITCHES USED AS SERVICE ENTRANCE EQUIPMENT TO BE U.L. LISTED AS "SER" RATED EQUIPMENT.
33. PANEL BOARDS SHALL BE MANUFACTURED BY SQUARE-D, EATON, GENERAL ELECTRIC, OR SIMILAR, MEETING U.L. STANDARDS 50 AND 67, WITH U.L. LABEL. PANELS USED AS SERVICE ENTRANCE EQUIPMENT TO BE U.L. LISTED AS "SER" RATED EQUIPMENT.
34. BREAKERS: THERMAL, MAGNETIC TYPE, QUICK-MAKE, QUICK-BREAK, PLUG-IN TYPE FOR LOAD CENTERS AND BOLT IN TYPE FOR PANEL BOARDS AND SINGLE UNIT CONSTRUCTION. TWO POLE BREAKERS SHALL BE SINGLE UNIT COMMON TRIP TYPE. BREAKERS USED AS SWITCHES FOR 120V LIGHTING CIRCUITS SHALL BE APPROVED FOR THAT USE AND MARKED "SWD". ALL BREAKERS FOR HVAC AND REFRIGERATION EQUIPMENT SHALL BE "HACK" RATED BREAKERS.
35. GROUNDING SYSTEM: PERMANENTLY AND EFFECTIVELY GROUND ALL METALLIC CONDUIT, SUPPORTS, CABINETS, PANEL BOARDS AND SYSTEM NEUTRAL CONDUCTORS. MAINTAIN CONTINUITY OF EQUIPMENT GROUND THROUGHOUT THE SYSTEM. GROUND CLAMPS SHALL BE APPROVED TYPE, SPECIFICALLY DESIGNED FOR GROUNDING, WHERE GROUNDING CONDUCTOR IS ENCLOSED IN CONDUIT. GROUND CLAMP SHALL BE OF A TYPE WHICH GROUNDS BOTH CONDUCTOR AND CONDUIT. ALL CIRCUITS IN FLEXIBLE METAL OR PLASTIC CONDUIT SHALL INCLUDE A GROUND WIRE SIZED AND INSTALLED IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE.
36. CONDUIT SHALL BE SIZED TO COMPLY WITH NEC FOR NUMBER AND SIZE OF CONDUCTORS INSTALLED PER NEC. PROVIDE SCHEDULE 40 PVC PLASTIC OR RIGID STEEL CONDUIT BELOW GRADE. MINIMUM 3/4" PROVIDE ELECTRICAL METAL TUBING (EMT) MEETING FS W-C563, FLEXIBLE METAL CONDUIT (IN LENGTHS 6' OR LESS) FOR INTERIOR LOCATIONS. EMT CONNECTORS AND COUPLING SHALL BE SET-SCREW TYPE. "MC" & "AC" TYPE CABLES MUST BE INSTALLED IN ACCORDANCE WITH N.E.C. AND CAN NOT BE SUPPORTED FROM CEILING SUPPORT WIRES.
37. ALL CONDUIT AND RACEWAY SYSTEMS TO BE INSTALLED WITH SEPARATE GROUND CONDUCTOR. CONDUIT SYSTEM IS NOT TO BE USED AS THE SOLE GROUNDING MEANS.
38. CONDUCTORS: INSULATED SOFT ANNEALED 98% PURE COPPER WITH COLOR CODING. B AND S GAGE, #10 AND SMALLER TO BE SOLID, #8 AND LARGER TO BE STRANDED, MINIMUM #12 UNLESS OTHERWISE INDICATED. CONDUCTORS MUST BE INSTALLED IN ACCORDANCE WITH NEC, AND CANNOT BE SUPPORTED FROM CEILING SUPPORT WIRES. THIN MAY NOT BE USED UNDERGROUND, AT SERVICE ENTRANCE, OUTSIDE, OR IN WET LOCATIONS. ALL INSULATION TO BE RATED FOR 600 V AND TYPES AS FOLLOWS:
#10 AND #12: THWN OR THHN
#8 TO #40: THWN OR THHN
SERVICE ENTRANCE: SER-RHW OR USE-RHW
OVER #4/0 ORDINARY SERVICE: THHN OR XHHN
OVER #4/0 WET OR HOT SERVICE: XHHW
WIRE THRU FLUORESCENT FIXTURES OR WITHIN OF HTG EQIP.: THHN
39. ALL WIRING TO BE COLOR-CODED AS FOLLOWS:
120/208 VOLT SYSTEM
NEUTRAL: WHITE
PHASE A OR L1: BLACK
PHASE B OR L2: RED
PHASE C OR L3: BLUE
GROUND: GREEN
277/480 SYSTEM
PHASE A: BROWN
PHASE B: ORANGE
PHASE C: YELLOW
NEUTRAL: GRAY
GROUND: GREEN
39. THE USE ALL NON-METALLIC WIRING METHODS IS PROHIBITED. USE MC CABLE OR ROUTE IN EMT RACEWAY FOR ALL WIRING.
40. WIRE CONNECTORS SHALL BE EQUAL TO "SCOTCH LOCK" FOR #8 AWG WIRE AND SMALLER AND EQUAL TO T & B "LOCK TIGHT" FOR #6 AWG AND LARGER.
41. LIGHT FIXTURES & LAMPS ARE FURNISHED BY CONTRACTOR EXCEPT AS NOTED ON THE LIGHT FIXTURE SCHEDULE. FIXTURE INSTALLATION SHALL BE BY THE ELECTRICAL CONTRACTOR ACCORDING TO LOCAL CODE AUTHORITY.
42. EMERGENCY LIGHTING SHALL HAVE A MINIMUM OF 90 MIN. BATTERY BACK-UP, OR AS REQUIRED BY LOCAL CODE AUTHORITY. PROVIDE LOCK-ON CIRCUIT BREAKERS FOR CIRCUITS SERVING EXIT SIGN FIXTURES AND EMERGENCY BATTERY PACK FIXTURES.
43. LAYOUT BRANCH CIRCUIT WIRING AND ARRANGEMENT OF HOME RUNS FOR MAXIMUM ECONOMY AND EFFICIENCY. INCREASE WIRE SIZE IF 100 FEET OF LENGTH IS EXCEEDED.
44. CONCEAL WIRING SYSTEM ABOVE SUSPENDED CEILINGS OR IN WALL OR FLOOR CONSTRUCTION WHERE POSSIBLE. INSTALL CONDUITS PARALLEL TO BUILDING LINES, AND TO CLEAR ALL OPENING, DEPRESSIONS, PIPES, DUCTS, STRUCTURE, ETC.
45. INSTALL CONDUIT CONTINUOUS BETWEEN BOXES AND CABINETS WITH NO MORE THAN FOUR (4) 90 DEGREE BENDS. SECURELY FASTEN IN PLACE WITH STRAPS, HANGERS AND STEEL SUPPORTS AS REQUIRED. DO NOT SUPPORT CONDUIT FROM SUSPENDED CEILING GRID OR SUSPENSION WIRES. REAM CONDUIT ENDS BEFORE INSTALLATION AND THOROUGHLY CLEAN BEFORE INSTALLATION. OPENINGS SHALL BE PLUGGED OR COVERED TO KEEP CONDUIT CLEAN. TERMINAL BOXES, SWITCHES AND OUTLET SHALL NOT BE USED TO "FEED THRU" TO THE NEXT SWITCH OR OUTLET.



ABBREVIATIONS:
A AMPERE
AFF ABOVE FINISHED FLOOR
AFG ABOVE FINISHED GRADE
AFI ARC FLASH INTERRUPTER
AFGI ARC FLASH CIRCUIT INTERRUPTER
ASYM ASYMMETRICAL
ATS AUTOMATIC TRANSFER SWITCH
AWG AMERICAN WIRE GAUGE
BIL BASIC IMPULSE LEVEL
BKR BREAKER BLDG BUILDING
CAT CATALOG
CB CIRCUIT BREAKER
CCTV CLOSED CIRCUIT TELEVISION
CKT CIRCUIT
CL CENTER LINE
CLG CEILING
CNTL CONTROL
CO CONDUIT ONLY
CPT CONTROL POWER TRANSFORMER
CT CURRENT TRANSFORMER
CU COPPER
CUH CABINET UNIT HEATER
D DEMOLISH
DIA DIAMETER
DISC DISCONNECT
DN DOWN
DP DISTRIBUTION PANEL BOARD
DWG DRAWING
EC EMPTY CONDUIT
EL ELEVATION
ELEC ELECTRICAL
EQUIP EQUIPMENT
ER EXISTING TO REMAIN
EXIST EXISTING
FA FIRE ALARM
FBO FURNISHED BY OTHER
FDR FEEDER
FXT FXTURE
FL FLOOR
FVNR FULL VOLTAGE NON-REVERSING
G GROUND
GEN GENERATOR
GFCI GROUND FAULT CIRCUIT INTERRUPTER
GFI GROUND FAULT INTERRUPTER
HID HIGH INTENSITY DISCHARGE
HOA HAND-OFF-AUTOMATIC
HP HORSE POWER
IC INTERRUPTING CAPACITY
JB JUNCTION BOX
KV KILOVOLT
KVA KILOVOLT AMPERE
KW KILOWATT
KWH KILOWATT HOUR
LCP LOCAL CONTROL PANEL
LIS LOAD INTERRUPTER SWITCH
LP LIGHTING PANEL
LTG LIGHTING
MAX MAXIMUM
MCC MOTOR CONTROL CENTER
MCS MOLDED CASE SWITCH
MDP MAIN DISTRIBUTION PANEL
MIN MINIMUM
MSB MAIN SWITCHBOARD
MSG MAIN SWITCHGEAR
MTS MANUAL TRANSFER SWITCH
NA NON-AUTOMATIC
NC NORMALLY CLOSED
NEC NATIONAL ELECTRIC CODE
NIC NOT IN CONTRACT
NO NORMALLY OPEN
NTS NOT TO SCALE
P POLE
PH PHASE
PNL PANEL
PT POTENTIAL TRANSFORMER



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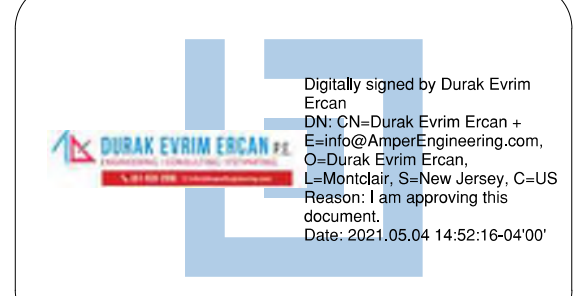


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ADDRESS:
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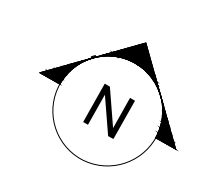
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ELECTRICAL COVER SHEET

DRAWING NO:
E000

ELECTRICAL SHEET INDEX
Table with 2 columns: SHEET NUMBER, SHEET NAME. Lists sheets E000 through E001.



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1 ELECTRICAL SITE PLAN
E100 SCALE: 1/16" = 1'

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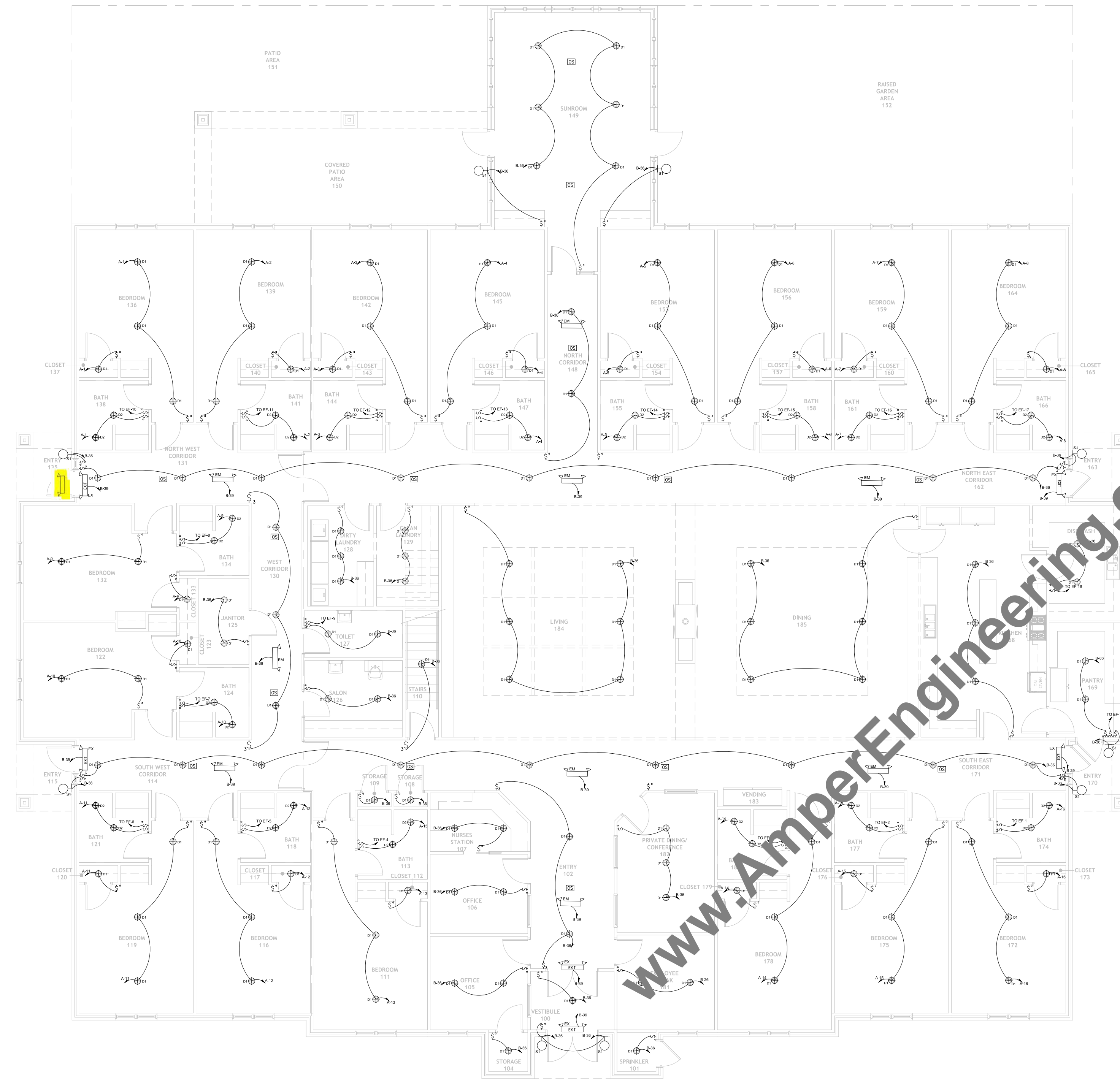
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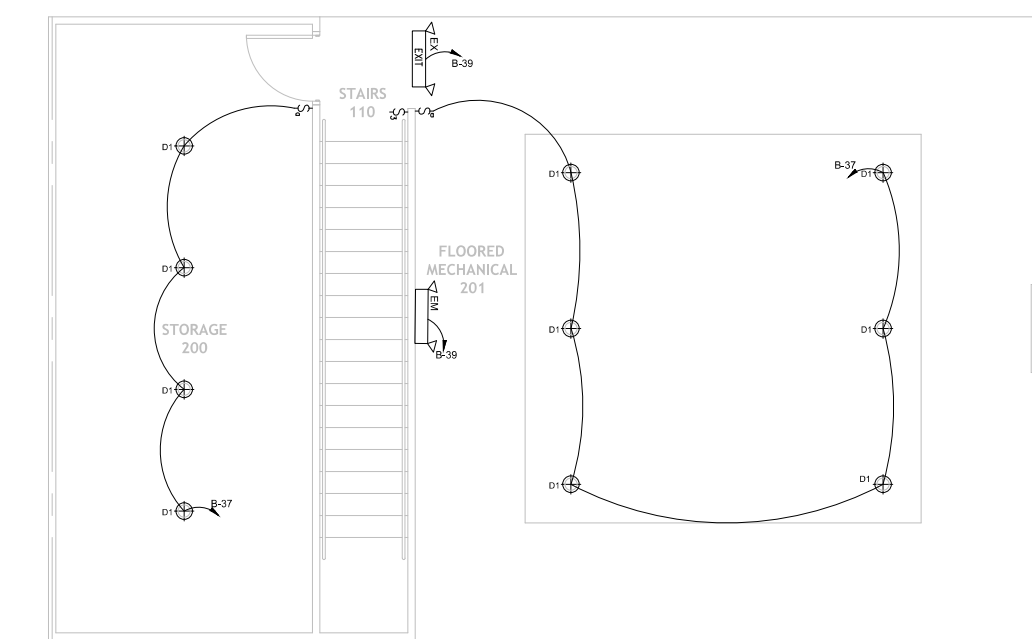
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ELECTRICAL SITE PLAN

DRAWING NO:
E100



1 FIRST FLOOR - ELECTRICAL LIGHTING PLAN
E201 SCALE: 1/8" = 1'

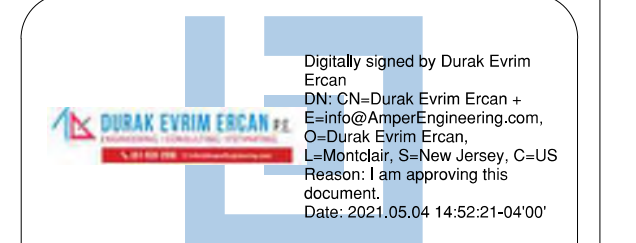


1 SECOND FLOOR - ELECTRICAL LIGHTING PLAN
E201 SCALE: 1/8" = 1'

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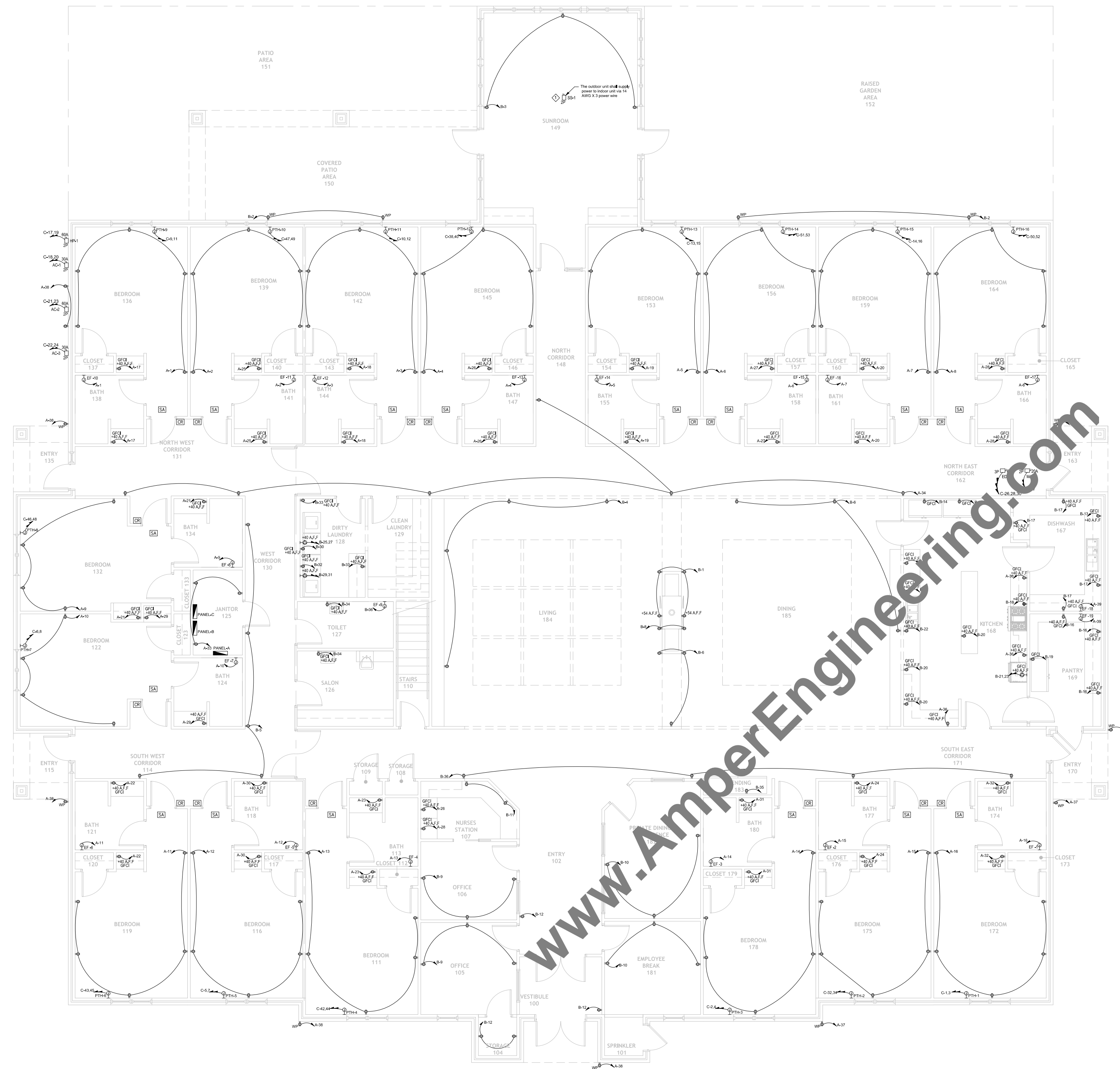
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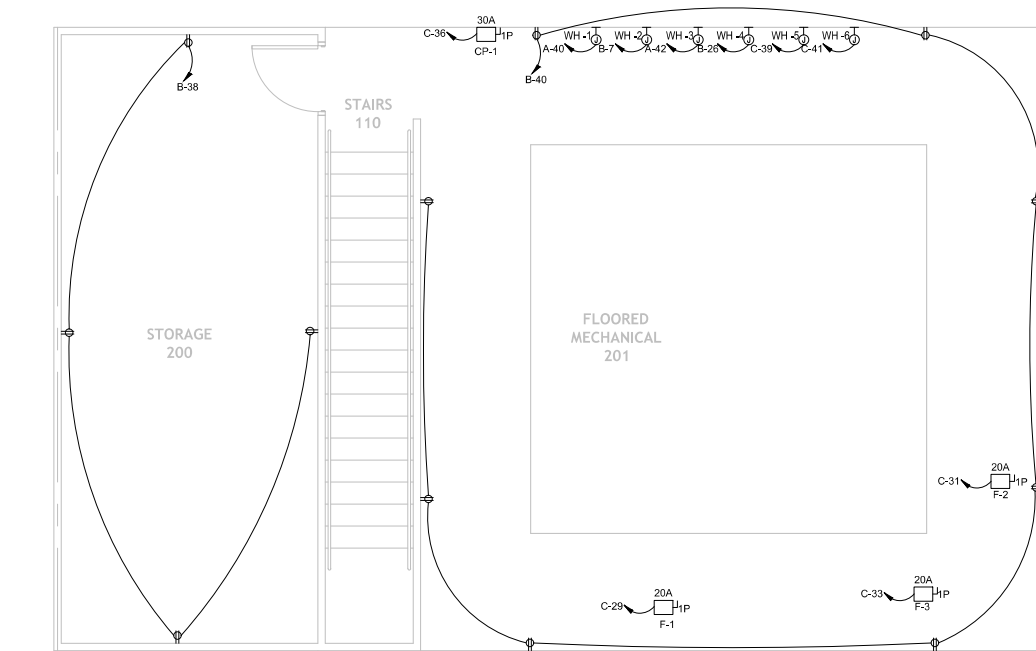
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**ELECTRICAL
 LIGHTING PLAN**

DRAWING NO:
E201



1 FIRST FLOOR - ELECTRICAL POWER PLAN
E202 SCALE: 1/8" = 1'

GENERAL NOTES:
 1. CONTRACTOR TO PROVIDE MINATURE OCPD OR DISCONNECT SWITCH TO ISOLATE SS AND PTH UNITS.

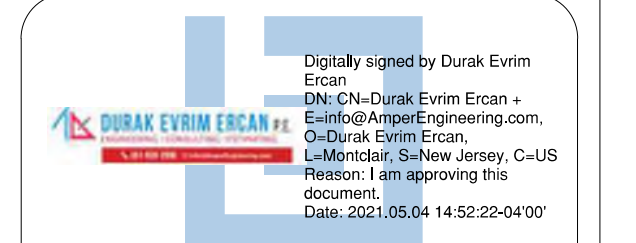


1 SECOND FLOOR - ELECTRICAL POWER PLAN
E202 SCALE: 1/8" = 1'

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DESIGNED BY: DEE	CHECKED BY: DEE

DRAWING TITLE:
**ELECTRICAL
 POWER PLAN**

DRAWING NO:
E202



COMcheck Software Version 4.1.5.1
Interior Lighting Compliance Certificate

Section 1: Project Information

Energy Code: 2009 IECC
Project Title:
Project Type: New Construction
Construction Site: Owner/Agent: Designer/Contractor:

Section 2: Interior Lighting and Power Calculation

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B x C)
Dormitory	12204	1	12204
Total Allowed Watts =			12204

Section 3: Interior Lighting Fixture Schedule

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Wattage (C x D)	E Wattage
Dormitory (12204 sq ft)				
LED 1: D1: LED COMMERCIAL DOWNLIGHT: Other:	1	151	15	2265
LED 2: D2: LED COMMERCIAL DOWNLIGHT: Other:	1	32	15	480
LED 3: S1: SCONCE LIGHTING: Other:	1	9	20	180
Total Proposed Watts =				2925

Section 4: Requirements Checklist

Interior Lighting PASSES. Design 76% better than code.

Lighting Wattage:

- Total proposed watts must be less than or equal to total allowed watts.

Allowed Watts	Proposed Watts	Complies
12204	2925	YES

Controls, Switching, and Wiring:

- Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.
- Daylight zones have individual lighting controls independent from that of the general area lighting.

Exceptions:

- Contiguous daylight zones spanning no more than two orientations are allowed to be controlled by a single controlling device.
- Daylight spaces enclosed by walls or ceiling height partitions and containing two or fewer light fixtures are not required to have a separate switch for general area lighting.

- Independent controls for each space (switch/occupancy sensor).

Exceptions:

- Areas designated as security or emergency areas that must be continuously illuminated.
- Lighting in stairways or corridors that are elements of the means of egress.

Project Title: Data Filename: C:\Users\Admin\Documents\COMcheck\Untitled.cck Report date: 04/26/21 Page 1 of 2

- Master switch at entry to hotel/motel guest room.
- Individual dwelling units separately metered.
- Medical task lighting or art/history display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.
- Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual switching of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.

Exceptions:

- Only one luminaire in space.
- An occupant-sensing device controls the area.
- The area is a corridor, storeroom, restroom, public lobby or sleeping unit.
- Areas that use less than 0.6 Watts/sq ft.

- Automatic lighting shutoff control in buildings larger than 5,000 sq ft.

Exceptions:

- Sleeping units, patient care areas, and spaces where automatic shutoff would endanger safety or security.

- Photocell/astrophotometric time switch on exterior lights.

Exceptions:

- Lighting intended for 24 hour use.

- Tandem wired one-lamp and three-lamp ballasted luminaires (No single-lamp ballasts).

Exceptions:

- Electronic high-frequency ballasts; Luminaires on emergency circuits or with no available pair.

Section 5: Compliance Statement

Compliance Statement: The proposed lighting design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 4.1.5.1 and to comply with the mandatory requirements in the Requirements Checklist.

Name - Title Signature Date

Project Title: Data Filename: C:\Users\Admin\Documents\COMcheck\Untitled.cck Report date: 04/26/21 Page 2 of 2

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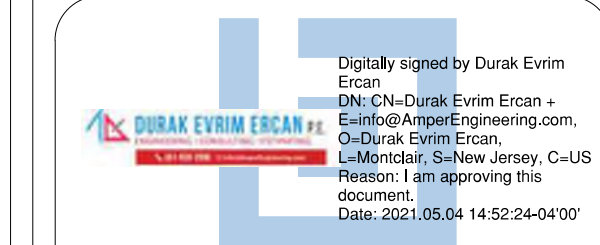
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PROJECT NUMBER:

1297

PAPER SIZE:

24X36

DESIGNED BY:

DEE

DRAWN BY:

CDS

CHECKED BY:

DEE

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ELECTRICAL COMCHECK REPORT

DRAWING NO:

E301

GREASE INTERCEPTOR SCHEDULE									
TAG	LOCATION	MANUFACTURER	MODEL	LIQUID CAPACITY (GALLONS)	GREASE CAPACITY (LBS)	OVERALL DIMENSION			NOTES
						L	W	H	
GI-1	EXTERIOR TO BUILDING	SCHIER	GGI-1500	1500	9,818	120"	68"	77"	1 TO 3

NOTES:
 1. CONTRACTOR SHALL SUBMIT PROPOSED GREASE INTERCEPTOR INSTALLATION PLANS AND SPECIFICATION TO LOCAL AUTHORITIES FOR THEIR APPROVAL BEFORE ACQUISITION. SEE MANUFACTURER INSTALLATION MANUAL FOR ADDITIONAL INSTRUCTIONS.
 2. PROVIDE WITH AK3 ANCHOR KIT.
 3. PROVIDE SAMPLING PORT SV24.
 4. PROVIDE WITH C24H H20 LOAD RATED PICKABLE CAST IRON LIDS WITH SAFE MANWAY FALL PROTECTION COVER.

EXPANSION TANK SCHEDULE						
TAG	MANUFACTURER	MODEL	SIZE	TANK VOL.	ACCEPTANCE VOL.	FACTORY PRECHARGE PRESSURE (PSI)
ET-1	AMTROL	ST-5	8" L x 14" D	2	1	55

CIRCULATION PUMP							
TAG	MANUFACTURER	MODEL	HEAD (FEET)	GPM	ELECTRICAL		NOTES
					MHP	VOLT-PH ASE	
CP-1	BELL & GOSSETT	PL SERIES	10	2	1/12	115-1	1

NOTES:
 1. PROVIDE AQUASTAT, LINE VOLTAGE.

GAS WATER HEATER SCHEDULE					
TAG	MANUFACTURER	MODEL	INPUT BTUH	TYPE OF GAS	NOTES
WH-1	NAVIEN	NPE-240	199,900	NATURAL GAS	1 TO 4
WH-2	NAVIEN	NPE-240	199,900	NATURAL GAS	1 TO 4
WH-3	NAVIEN	NPE-240	199,900	NATURAL GAS	1 TO 4
WH-4	NAVIEN	NPE-240	199,900	NATURAL GAS	1 TO 4
WH-5	NAVIEN	NPE-240	199,900	NATURAL GAS	1 TO 4
WH-6	NAVIEN	NPE-240	199,900	NATURAL GAS	1 TO 4

NOTES:
 1. GAS SUPPLY PRESSURE RANGE IS 3.5" MIN - 10.5" MAX.
 2. PROVIDE CONCENTRIC VENT ASSEMBLY FOR INTAKE AND EXHAUST.
 3. PROVIDE 120V CIRCUIT FOR BLOWER AND CONTROLS, HARD-WIRED.
 4. PROVIDE CONDENSATE DRAIN NEUTRALIZATION KIT.

PLUMBING ROUGH-IN SCHEDULE				
FIXTURE TYPE	DOMESTIC C.W.	DOMESTIC H.W.	SANITARY	VENT
WC	3/4"	-	3"	2"
LAV	1/2"	1/2"	1 1/4"	1 1/4"
SK	1/2"	1/2"	1 1/2"	1 1/2"
MS	3/4"	3/4"	3"	1 1/2"
KS	1/2"	1/2"	1 1/2"	1 1/4"
SH	1/2"	1/2"	2"	1 1/2"
WASHING MACHINE	3/4"	3/4"	2"	1 1/4"
DW	-	1/2"	2"	1 1/2"
FD	-	-	2"	1 1/2"

NOTES:
 1. SANITARY RISER UP IN WALL TO FIXTURE SHALL BE A MINIMUM OF 2".
 2. 1/2" CW AND HW APPLIES TO THE FINAL VERTICAL RISER-DROP TO EACH FIXTURE. BRANCH PIPING TO VERTICAL DROP SHALL BE A MINIMUM OF 3/4" UNLESS NOTED OTHERWISE.
 3. SIZES SHOWN ARE MINIMUMS. SIZES SHOWN ON THE DRAWING THAT ARE LARGER THAN THE SIZE IS LISTED IN THE SCHEDULE SHALL DICTATE THE ROUGH-IN SIZE.

PLUMBING SYMBOL LIST ABBREVIATION KEY

NOT ALL SYMBOLS MAY APPLY.	
SYMBOL:	DESCRIPTION:
	PIPE CONTINUATION
	PIPE CAP
	PIPE DOWN
	PIPE UP OR UP/DOWN
	PIPE SERVING FIXTURE ON FLOOR ABOVE (EXAMPLE: FD = FLOOR DRAIN)
	PITCH PIPE IN DIRECTION
	DIRECTION OF FLOW IN PIPE
	UNION/FLANGE
	SHUTOFF VALVE NORMALLY OPEN
	SHUTOFF VALVE NORMALLY CLOSED
	BALANCING VALVE (NUMBER INDICATES GPM)
	CHECK VALVE
	THERMOMETER WITH WELL (DIAL TYPE)
	REDUCER - REFERENCE SPECIFICATION FOR CONCENTRIC/ECCENTRIC AND FOT/FOB
	PUMP
	METER
	NEW CONNECTION
	FLOOR PENETRATION
	REGULATOR
	COLD WATER
	GREASE WASTE
	GAS
	HOT WATER
	HOT WATER RETURN
	SANITARY DRAINAGE UNDER FLOOR
	VENT
	AIR ADMITTANCE VALVE
	COLD WATER
	CIRCULATION PUMP
	DRAINAGE FIXTURE UNIT
	DOUBLE CLEANOUT
	DISH WASHER
	EXPANSION TANK
	FLOOR CLEAN OUT
	FLOOR DRAIN
	FLOOR SINK
	GAS
	GREASE WATER
	GREASE INTERCEPTOR
	HOT WATER
	HOT WATER RETURN
	KITCHEN SINK
	LAVATORY
	MIXING VALVE
	MOP SINK
	MANHOLE
	SANITARY
	SINK
	SANITARY SEWER
	SHOWER HEAD
	VENT
	VENT THRU ROOF
	WATER SERVICE
	WATER HEATER
	WATER CLOSET
	WASHING MACHINE FIXTURE
	WATER SUPPLY FIXTURE UNIT
	WALL CLEAN OUT

PLUMBING GENERAL NOTES:-

- THE SYMBOLS ARE FOR THE CONVENIENCE OF THE CONTRACTOR. CONTRACTOR SHALL VERIFY QUANTITIES AND FURNISH ALL MATERIALS REQUIRED FOR FULLY OPERATIONAL SYSTEM, WHETHER SPECIFIED OR NOT.
- REFER TO ARCHITECTURAL FLOOR PLANS AND ELEVATION FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF ALL PLUMBING FIXTURES BEFORE INSTALLATION OR MAKE-UP OF PIPE. PLUMBING FIXTURES SHALL BE MOUNTED AT HEIGHTS SHOWN ON THE ARCHITECTURAL PLANS.
- CONTRACTOR SHALL VERIFY THAT FIXTURES SUPPLIED ARE APPROVED PER ALL APPLICABLE STATE, LOCAL AND GOVERNING AUTHORITIES.
- REFER TO THE PLUMBING ROUGH-IN SCHEDULE FOR THE SIZES OF BRANCH PIPES TO PLUMBING FIXTURE.
- FOR CLARITY, NOT ALL VALVES HAVE BEEN SHOWN. PROVIDE BALL VALVES FOR ALL WATER ISOLATION AND SUPPLY TAKEOFFS.
- COORDINATE ALL PLUMBING ROUTING WITH GENERAL CONTRACTOR AND OTHER TRADES. PROVIDE NECESSARY OFFSETS TO AVOID CONFLICTS AND TO MAINTAIN REQUIRED EQUIPMENT ACCESS AND SERVICEABILITY.
- PIPING LOCATIONS HAVE BEEN SHOWN FOR CLARITY AND DO NOT NECESSARILY REFLECT THE SPECIFIC LOCATION OF PIPE. COORDINATE ROUTING OF ALL PIPING WITH ALL OTHER TRADES BEFORE INSTALLATION.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- VERIFY UNDERGROUND PIPE SIZES, INVERT ELEVATIONS, AND LOCATIONS PRIOR TO BEGINNING ANY WORK.
- VALVE SHALL BE LINE SIZE UNLESS NOTED OTHERWISE.
- PROVIDE TRAP PRIMERS WHERE REQUIRED BY LOCAL AUTHORITIES.
- COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL PIPING OVER ELECTRICAL PANEL.
- COORDINATE ALL ROOF PENETRATIONS WITH OTHER TRADES. MAINTAIN MINIMUM 10" CLEARANCE FROM ALL AIR INTAKES. MAINTAIN MINIMUM 2' CLEARANCE FROM ALL OTHER EQUIPMENT.
- VERIFY LOCATION AND DEPTH OF UTILITIES AT A POINT OF CONNECTION BEFORE START OF PIPING INSTALLATION.

PROFESSIONAL ENGINEERING

DURAK EVRIM ERCAN P.E.
 ENGINEERING | CONSULTING | ESTIMATING
 201-920-2899 | info@AmperEngineering.com

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 LITTLE ROCK, AR 72211

PROJECT NUMBER:
 1297

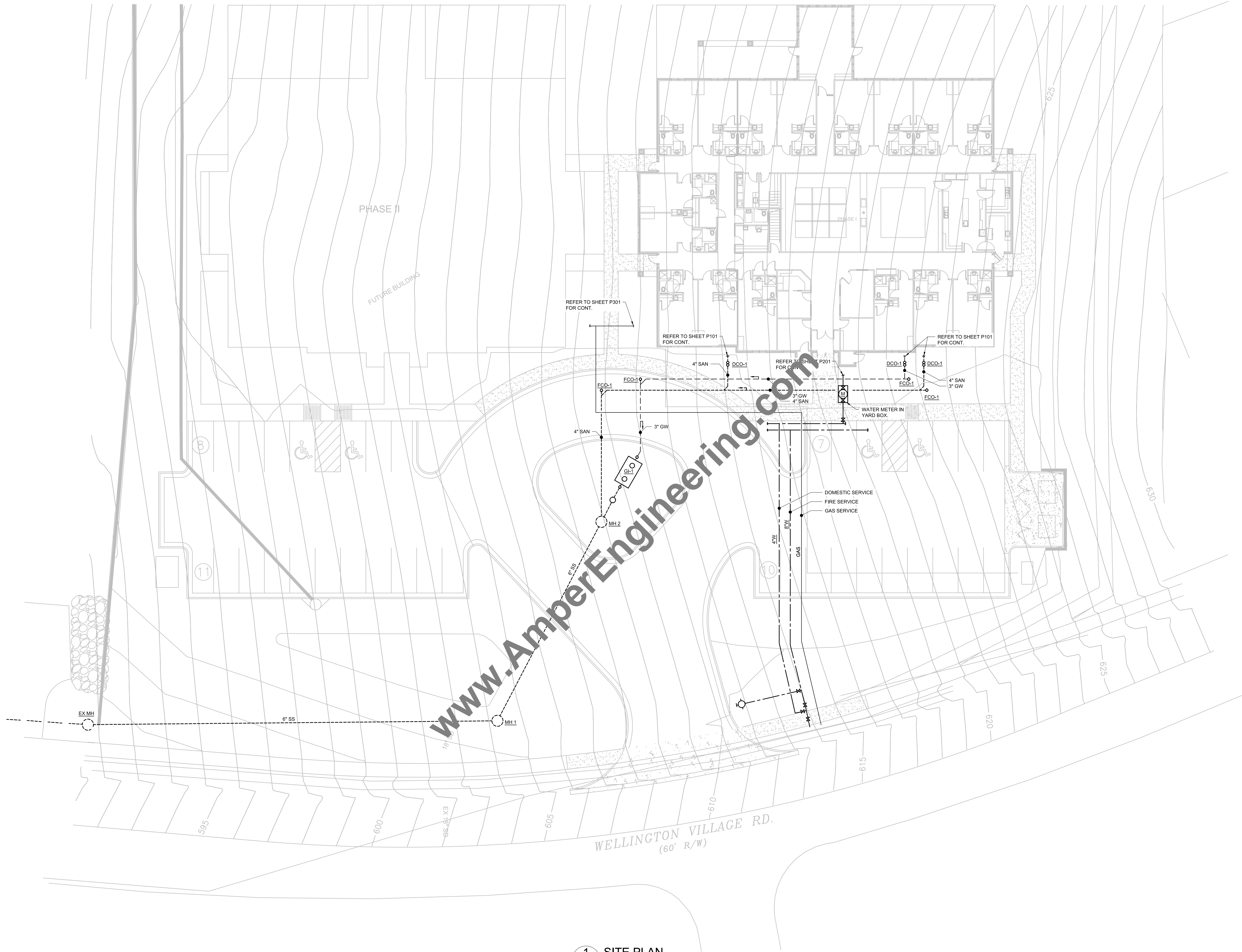
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 CHECKED BY: DEE

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PLUMBING COVER SHEET

DRAWING NO:
P000

APPLICABLE CODES	
EDITION	CODES
2018	INTERNATIONAL MECHANICAL CODE (IMC)
2018	INTERNATIONAL PLUMBING CODES (IPC)

PLUMBING SHEET INDEX	
SHEET NUMBER	SHEET NAME
P000	PLUMBING COVER SHEET
P100	SITE PLAN FOR PIPING
P101	FIRST & SECOND FLOOR - SAN & VENT PLAN
P102	ROOF - SAN & VENT PLAN
P201	DOMESTIC WATER PLAN
P301	GAS FLOOR PLAN
P401	SAN & VENT RISERS
P402	DOMESTIC WATER RISERS
P403	GAS RISERS
P501	PLUMBING DETAILS
P502	PLUMBING DETAILS



1 SITE PLAN
P100 SCALE: N.T.S.

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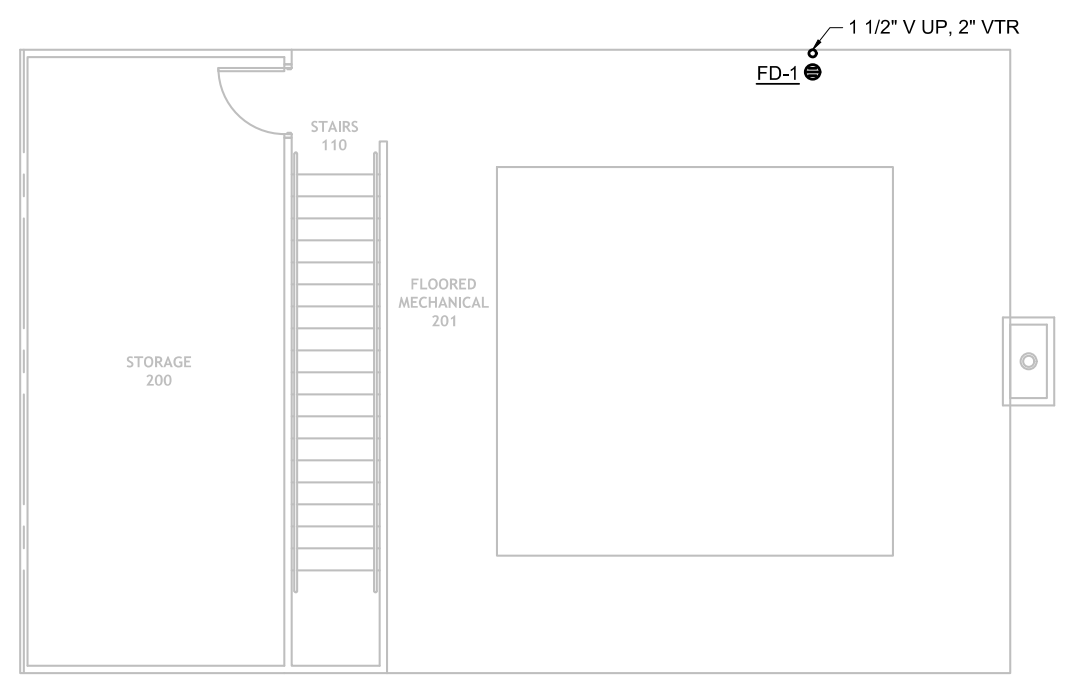
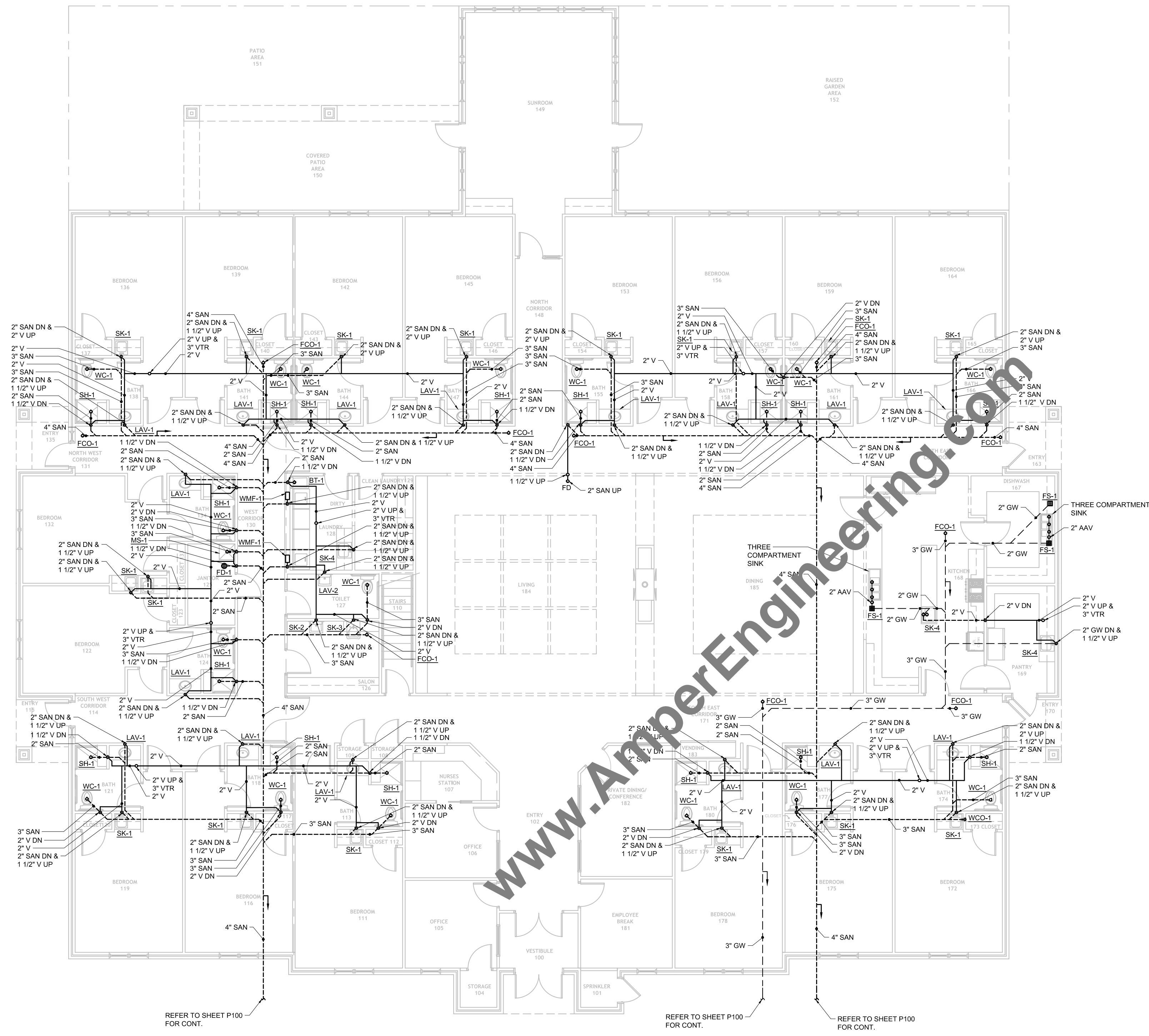
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SITE PLAN FOR PIPING

DRAWING NO:
P100



2 SECOND FLOOR - SAN & VENT PLAN
 P101 SCALE: 1/8" = 1'-0"

1 FIRST FLOOR - SAN & VENT PLAN
 P101 SCALE: 1/8" = 1'-0"



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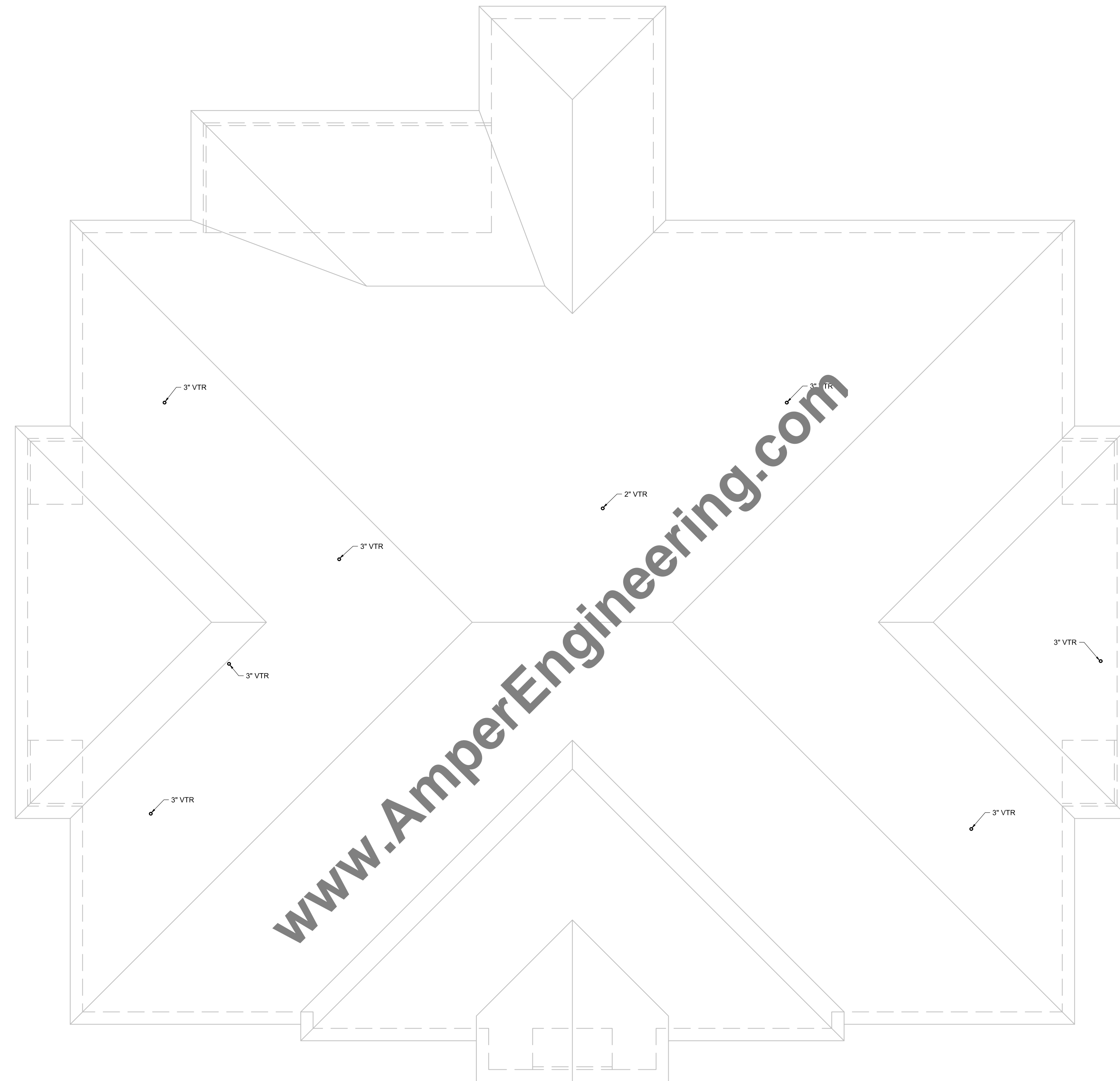
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PROJECT NUMBER: 1297
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FIRST & SECOND FLOOR - SAN & VENT PLAN

DRAWING NO:
P101

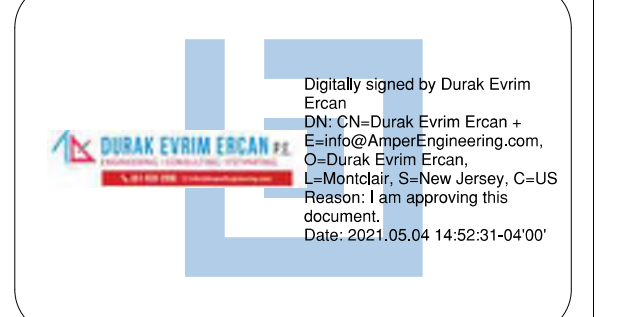


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1 ROOF - SAN & VENT PLAN
 P103 SCALE: 1/8" = 1'-0"



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PROJECT NUMBER: 1297	
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**ROOF - SAN & VENT
 PLAN**

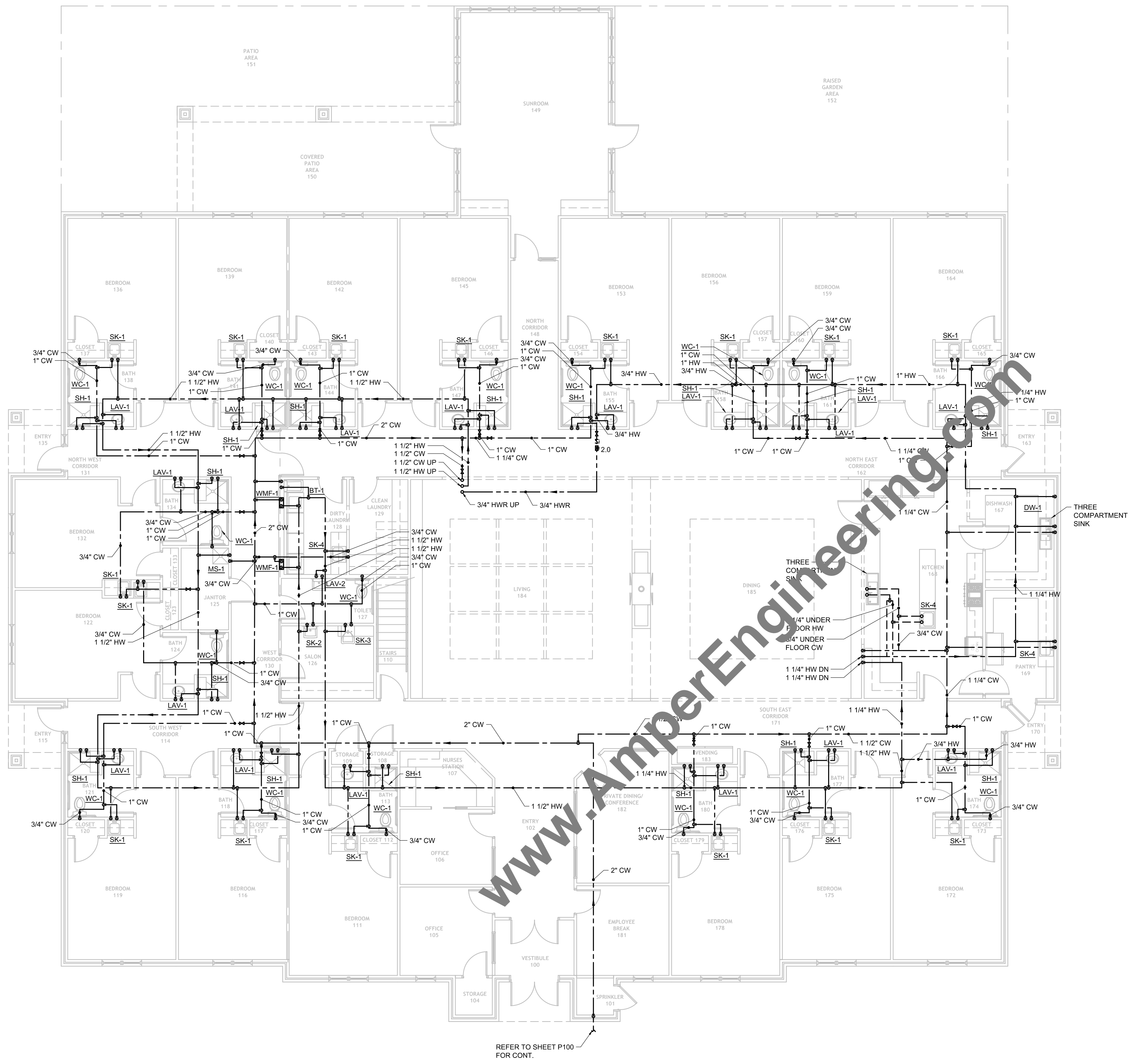
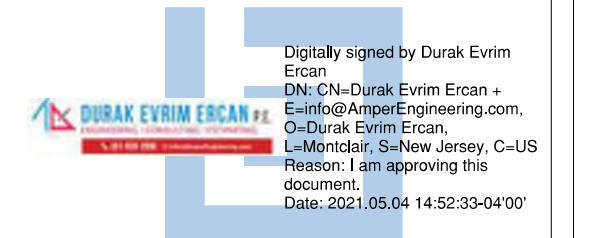
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P103

GENERAL NOTES:
 1. ALL PIPING CONNECTION TO INDIVIDUAL FIXTURE SHALL BE 3/4", UNLESS NOTED OTHERWISE.

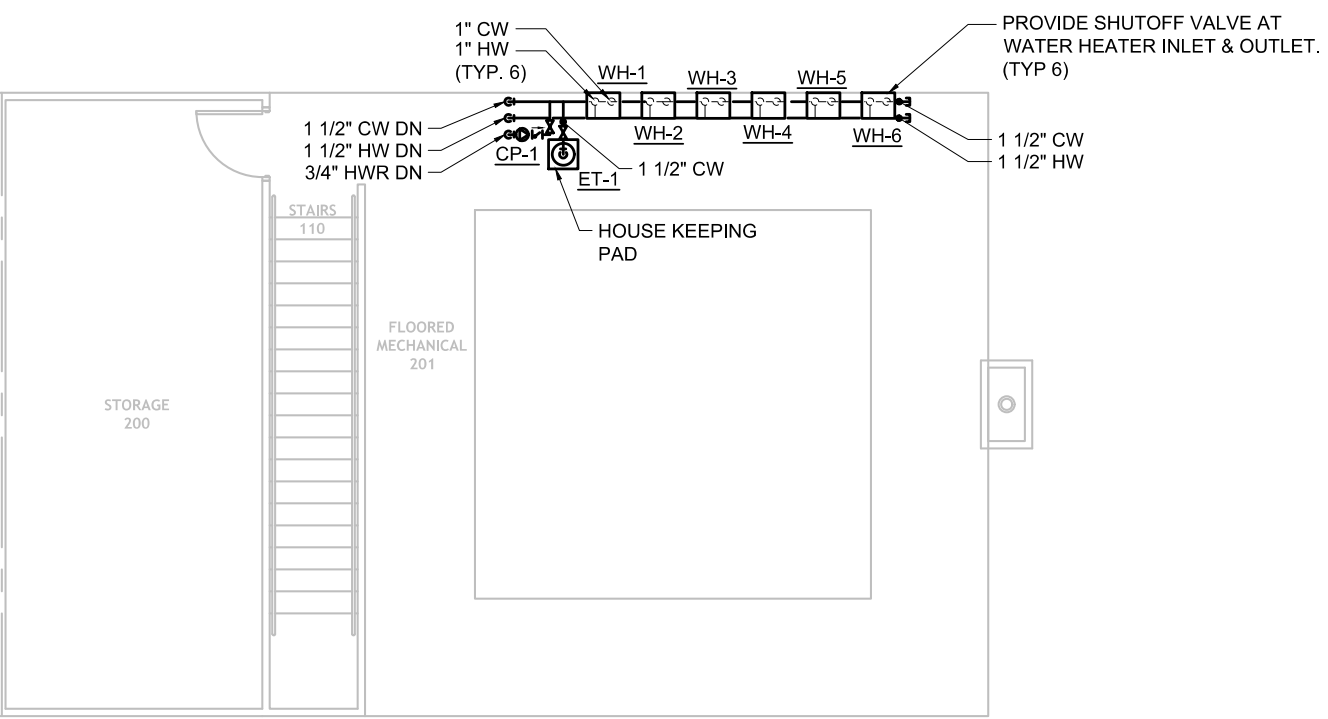
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1 FIRST FLOOR - DOMESTIC WATER PLAN
 P201 SCALE: 1/8" = 1'-0"



2 SECOND FLOOR - DOMESTIC WATER PLAN
 P201 SCALE: 1/8" = 1'-0"

REV.	DATE	DESCRIPTION
0	05/04/2021	ISSUED FOR APPROVAL

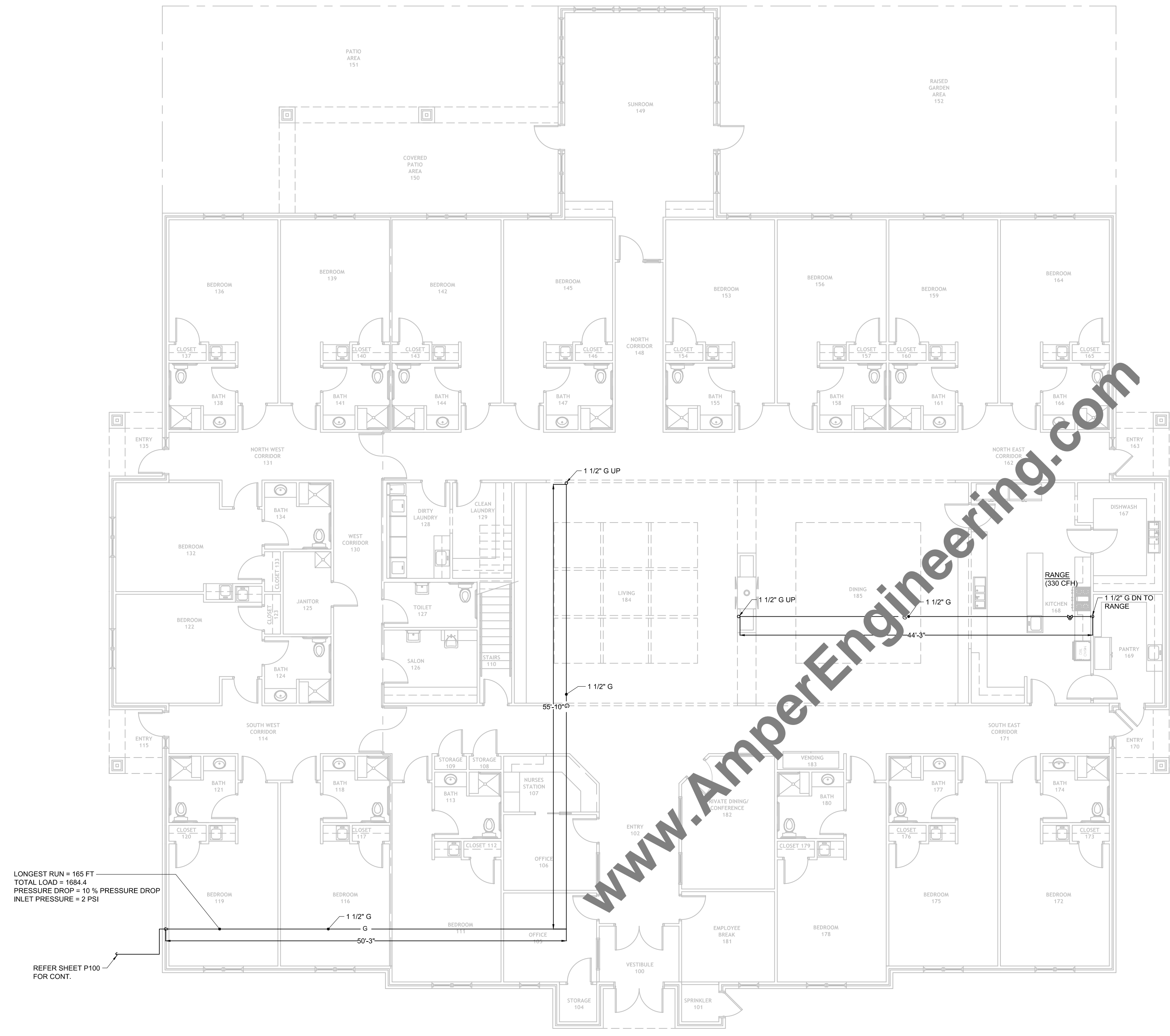
CLIENT:
 NGTON 3 LIVING CENTER ASSISTED

PROJECT:
NGTON 3 LIVING CENTER ASSISTED
 ADDRESS: ... RD
 LITTLE ROCK, AR 72211

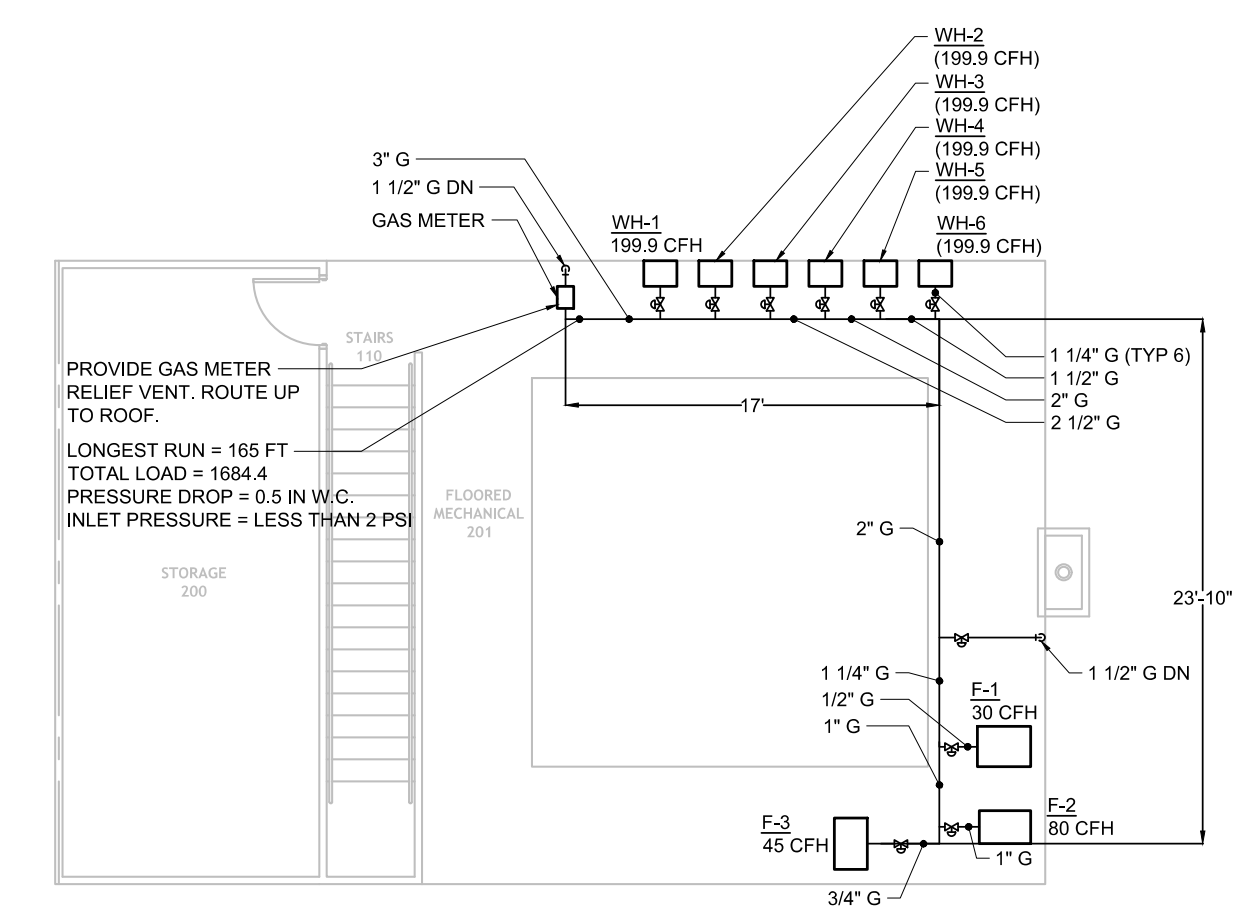
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 PAPER SIZE: 24X36
 DESIGNED BY: DEE
 DRAWN BY: CDS
 CHECKED BY: DEE

DRAWING TITLE:
DOMESTIC WATER FLOOR PLAN

DRAWING NO:
P201



1 FIRST FLOOR GAS PLAN
P301 SCALE: 1/8" = 1'-0"



2 SECOND FLOOR GAS PLAN
P301 SCALE: 1/8" = 1'-0"

SEAL & SIGNATURE:

 Durak Evrim Ercan

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Digitally signed by Durak Evrim Ercan
 DN: cn=Durak Evrim Ercan, email=Durak@AmperEngineering.com, o=Durak Evrim Ercan, ou=Meridian, st=New Jersey, C=US
 Reason: I am approving this document.
 Date: 2021.05.04 14:52:34-0400'

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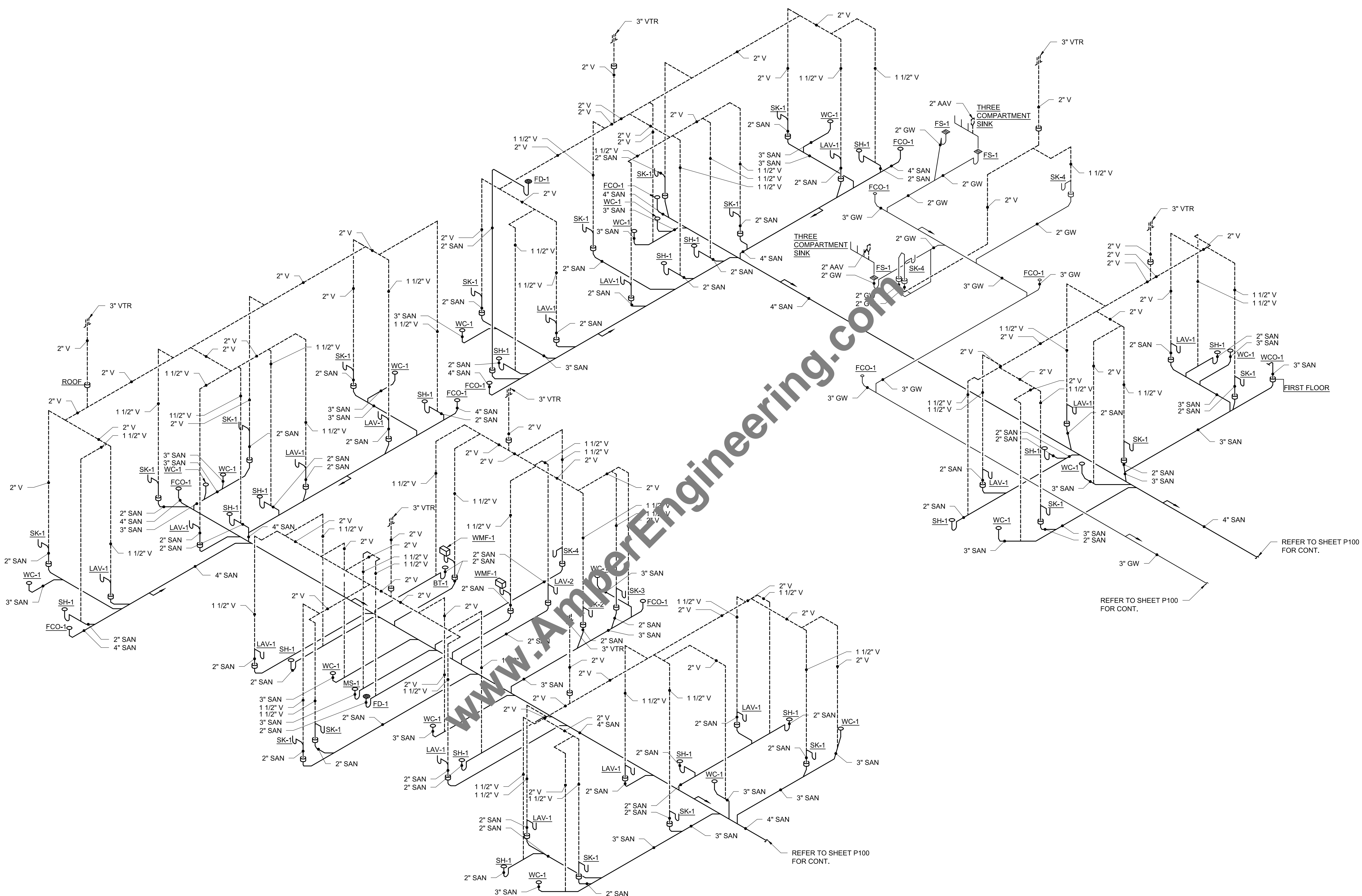
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PROJECT NUMBER:
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GAS FLOOR PLAN

DRAWING NO:
P301



1 SAN & VENT RISER DIAGRAM
 P401 SCALE: N.T.S.

SEAL & SIGNATURE:

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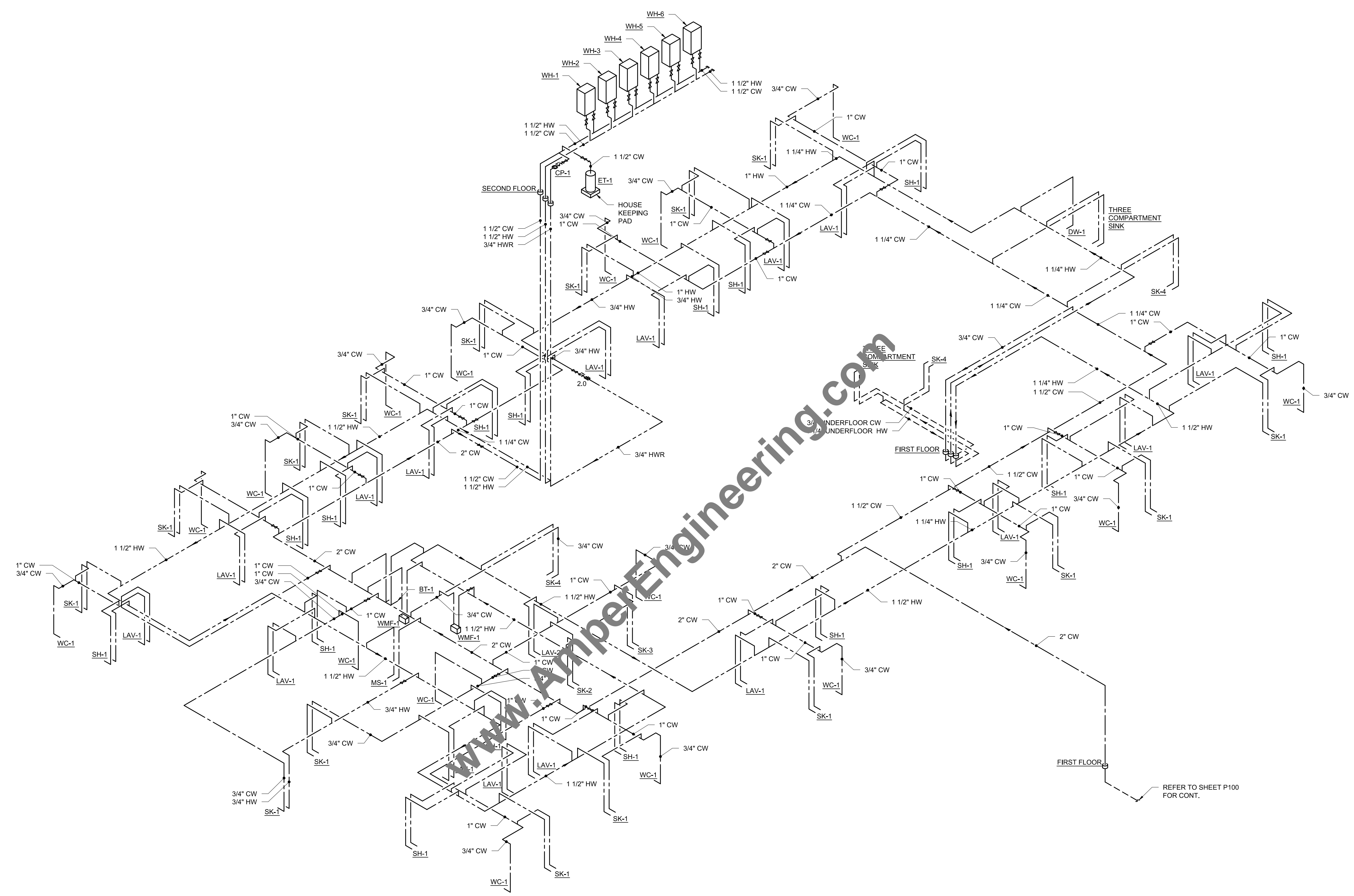
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PROJECT NUMBER:
 1297
 PAPER SIZE: 24X36
 DESIGNED BY: DEE
 DRAWN BY: CDS
 CHECKED BY: DEE

DRAWING TITLE:
SAN & VENT RISERS

DRAWING NO:
P401

GENERAL NOTES:
 1. ALL PIPING CONNECTION TO INDIVIDUAL FIXTURE SHALL BE 3/4", UNLESS NOTED OTHERWISE.



1 DOMESTIC WATER RISER DIAGRAM
 P402 SCALE: N.T.S.

PROFESSIONAL ENGINEERING
DURAK EVRİM ERCAN P.E.
 ENGINEERING | CONSULTING | ESTIMATING
 201-920-2899 info@AmperEngineering.com

SEAL & SIGNATURE:

Durak Evrim Ercan

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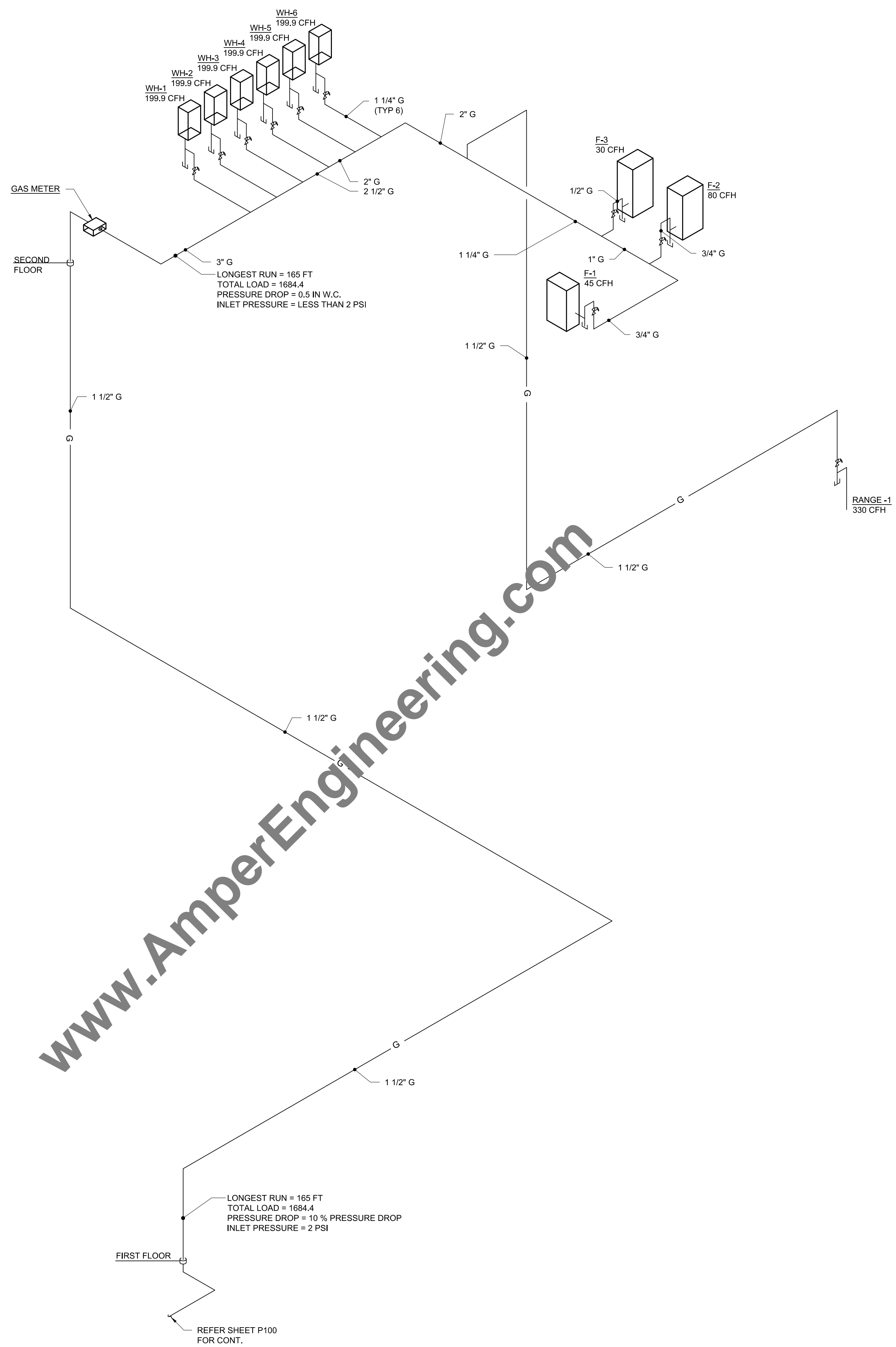
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PROJECT NUMBER:
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DRAWING TITLE:
**DOMESTIC WATER
 RISERS**

DRAWING NO:
P402

REFER TO SHEET P100 FOR CONT.



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1 GAS RISER DIAGRAM
P403 SCALE: N.T.S.



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GAS RISERS

DRAWING NO:
P403



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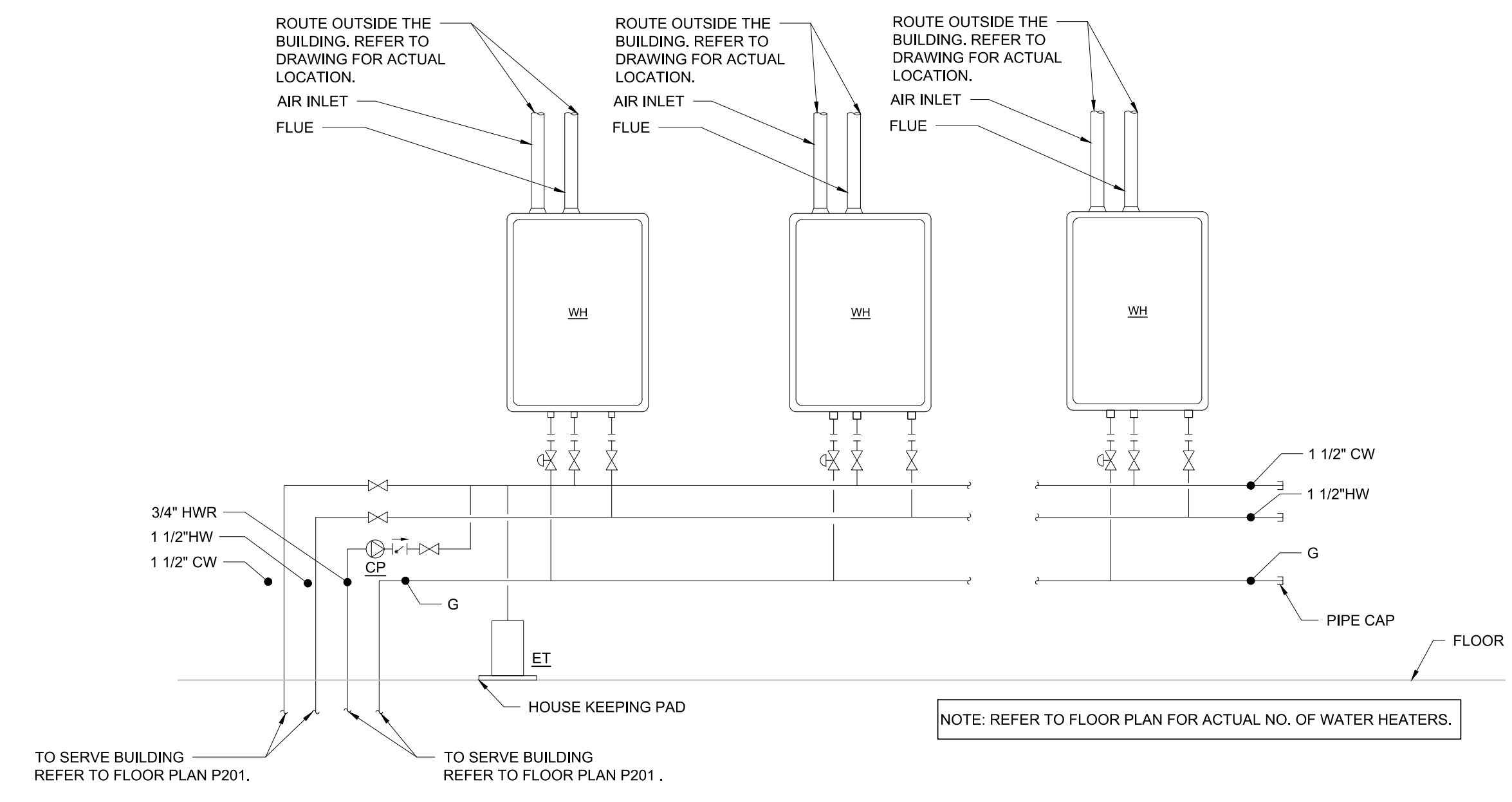
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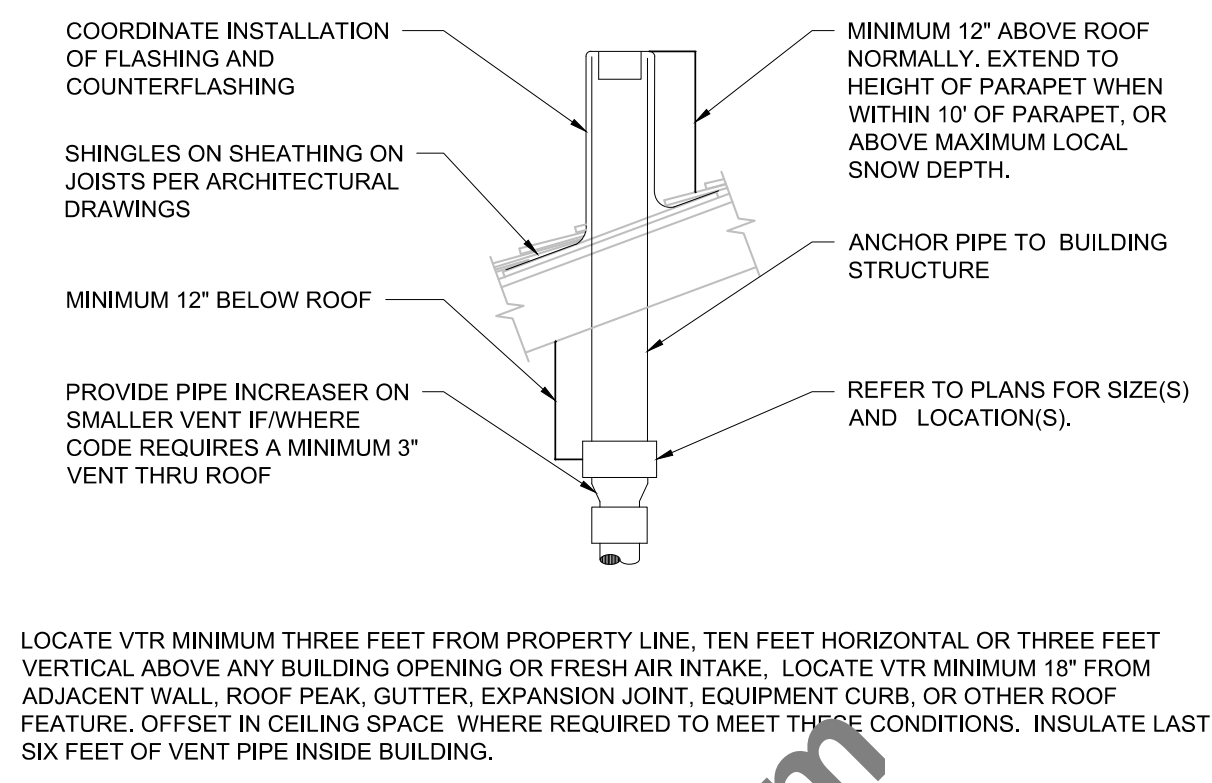
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DRAWING TITLE:
PLUMBING DETAILS

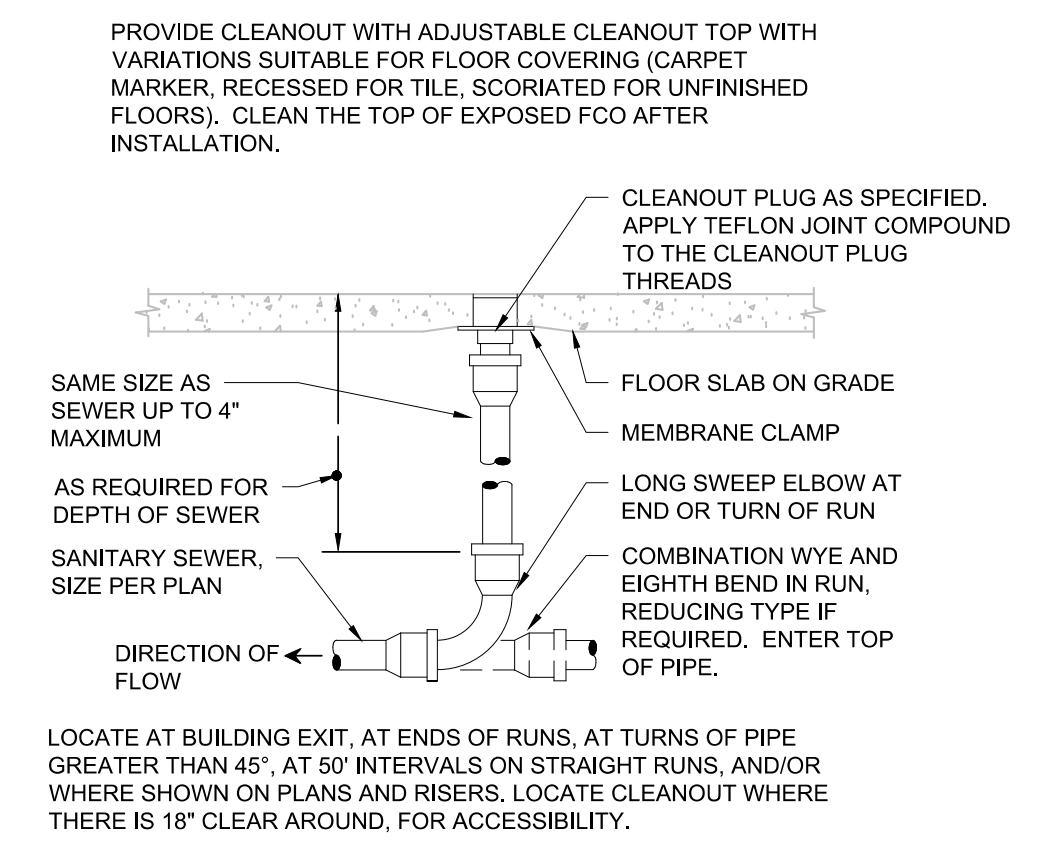
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P501



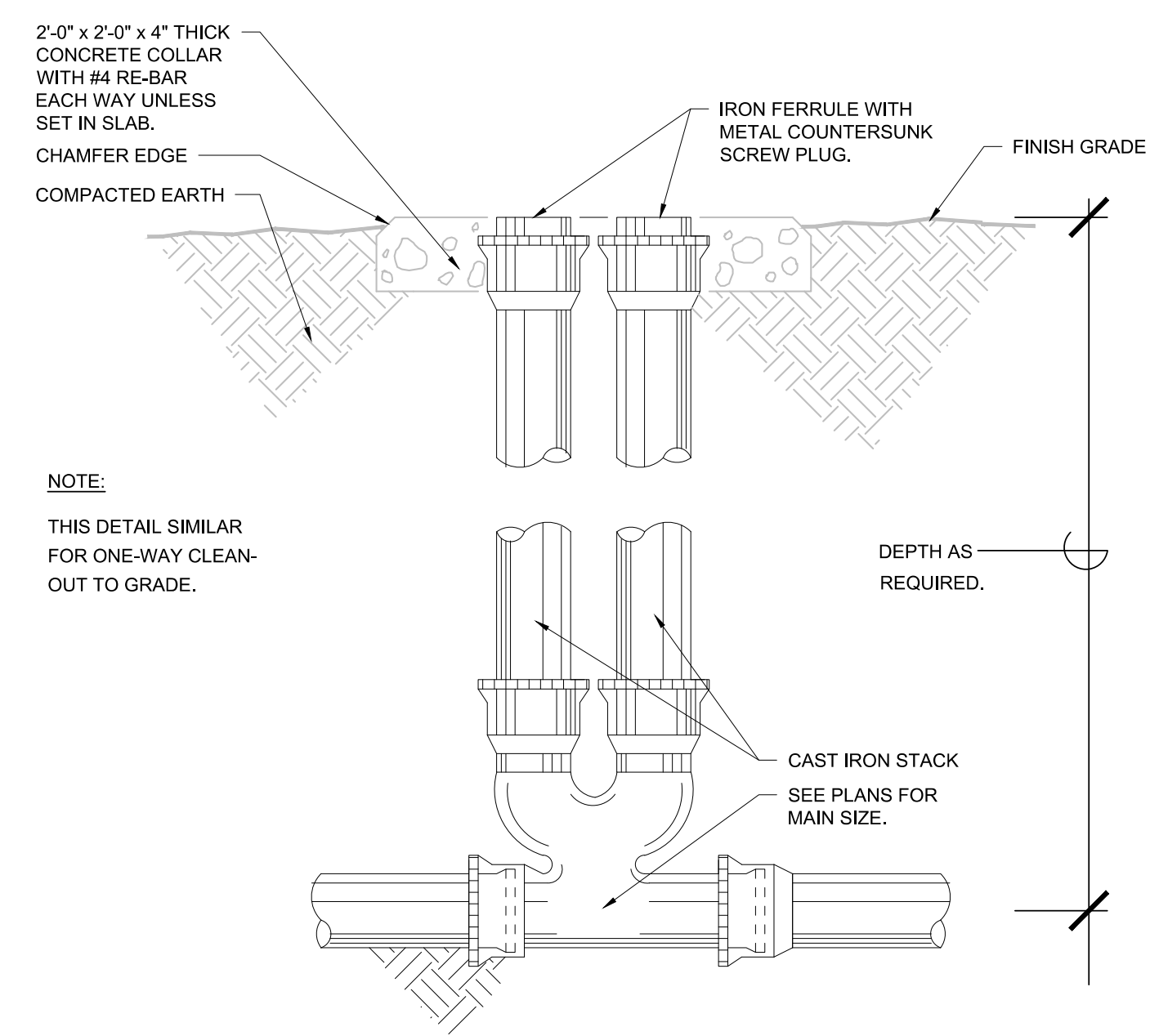
1 WATER HEATER DETAIL
 P501 SCALE: N.T.S.



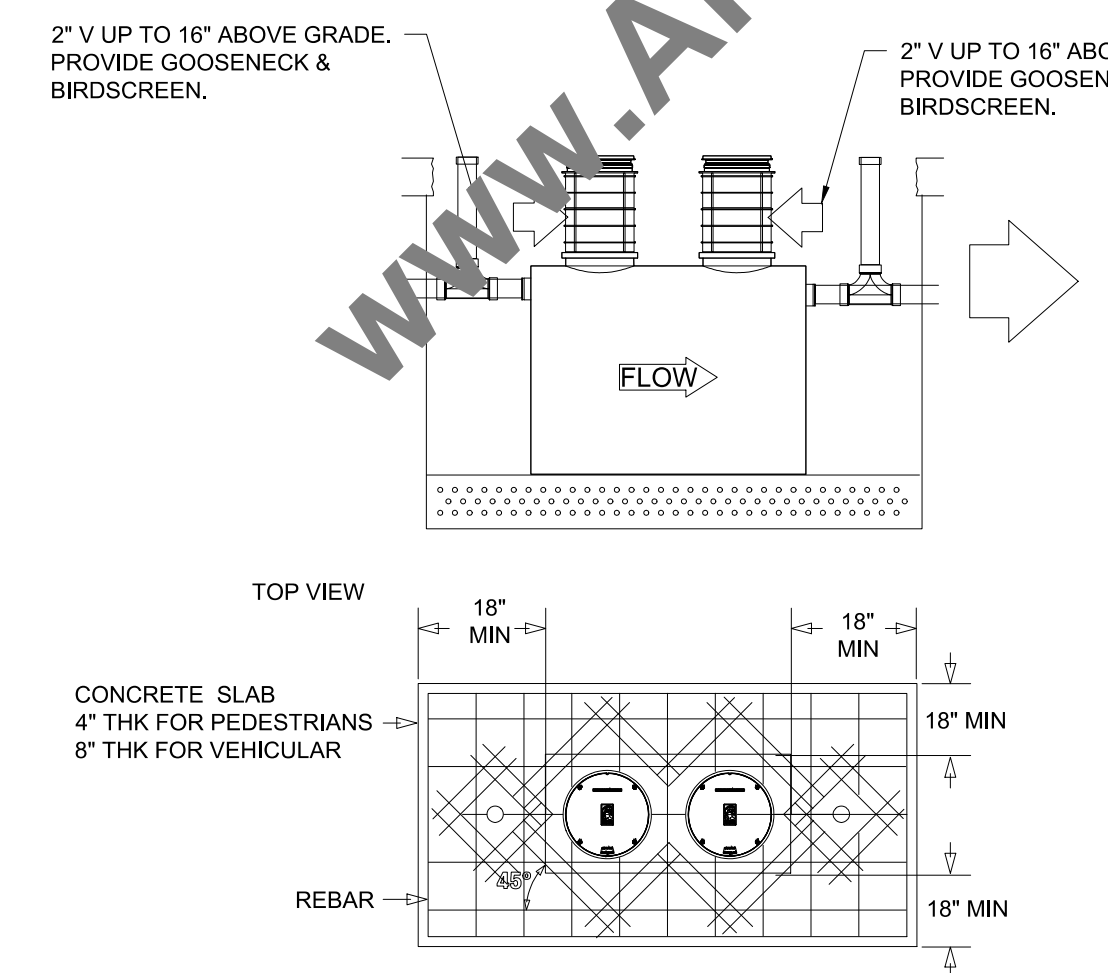
2 VENT THROUGH ROOF
 P501 SCALE: N.T.S.



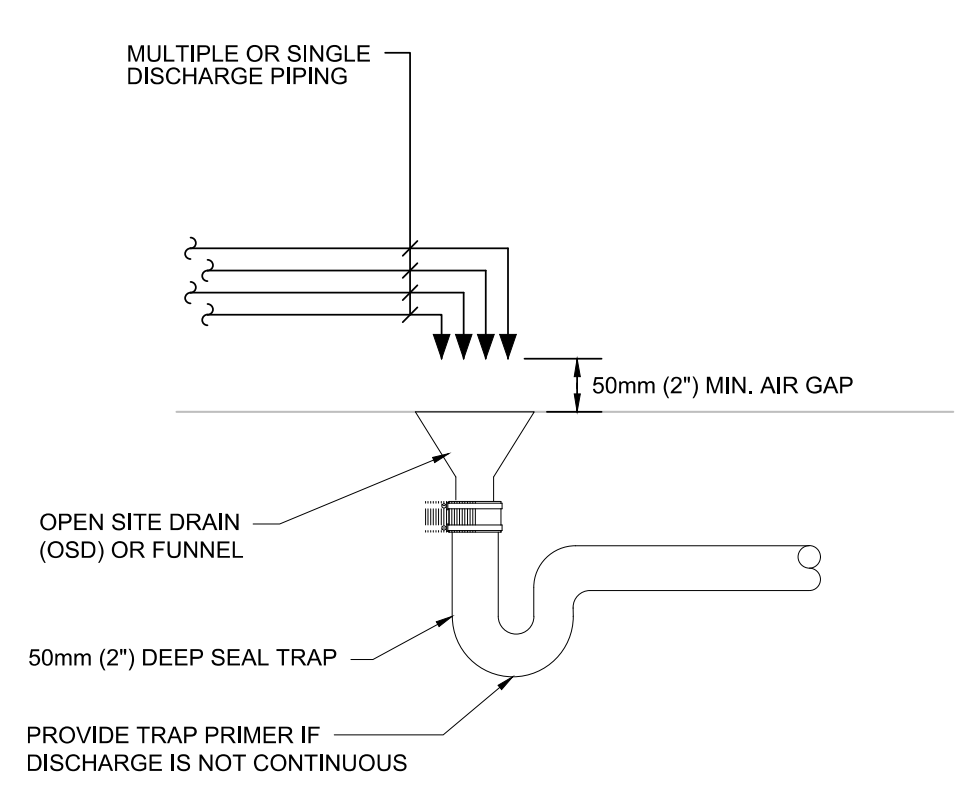
3 FLOOR CLEAN OUT
 P501 SCALE: N.T.S.



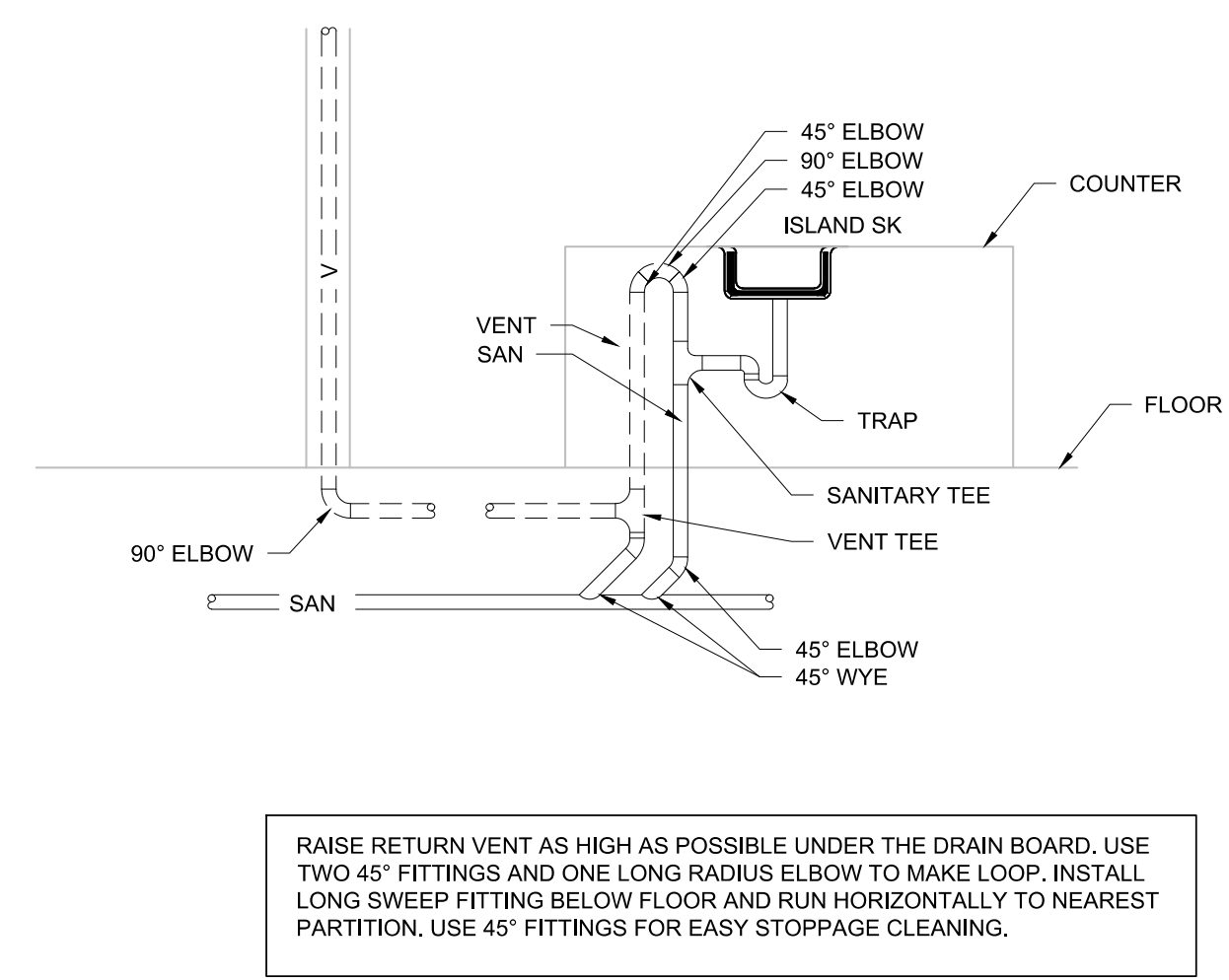
4 DOUBLE CLEAN-OUT
 P501 SCALE: N.T.S.



5 GREASE INTERCEPTOR
 P501 SCALE: N.T.S.

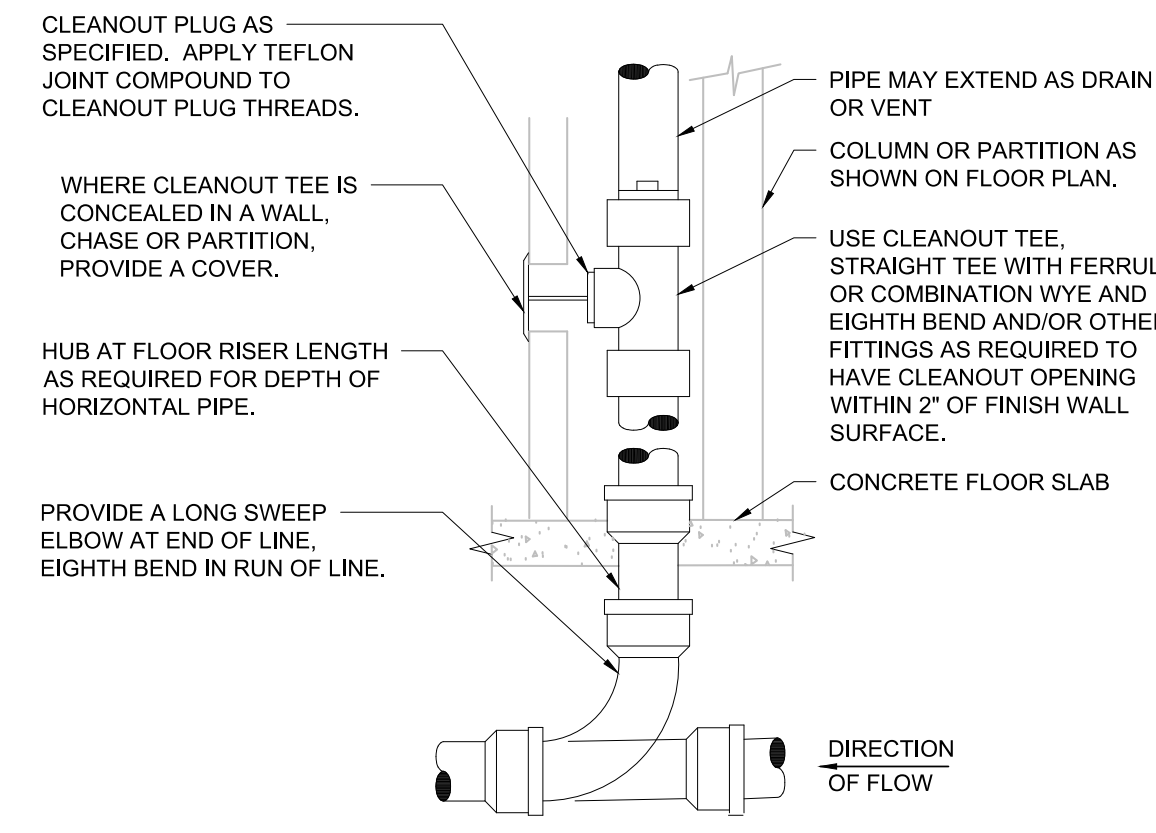


6 INDIRECT WASTE (SANITARY)
 P501 SCALE: N.T.S.



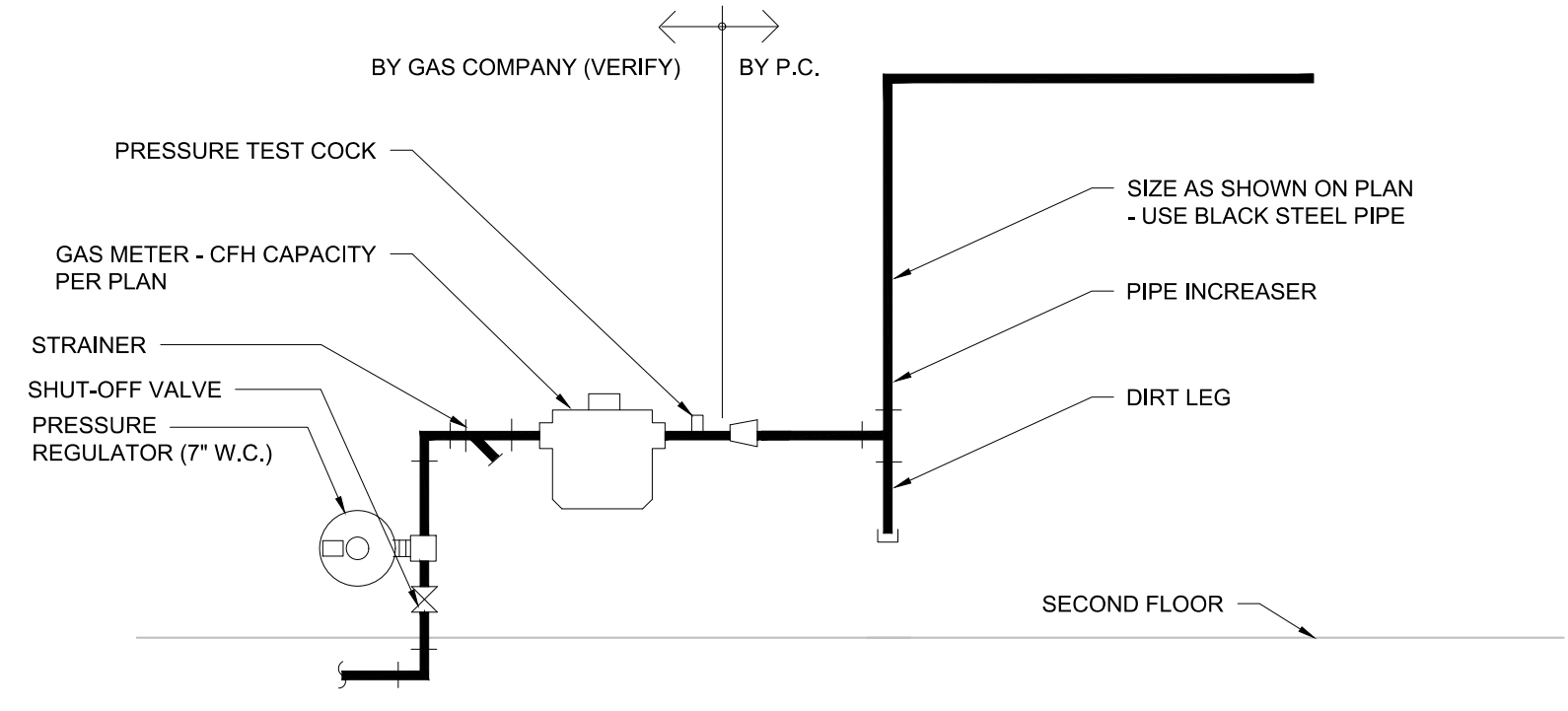
7 ISLAND KITCHEN VENT CONNECTION
 P501 SCALE: N.T.S.

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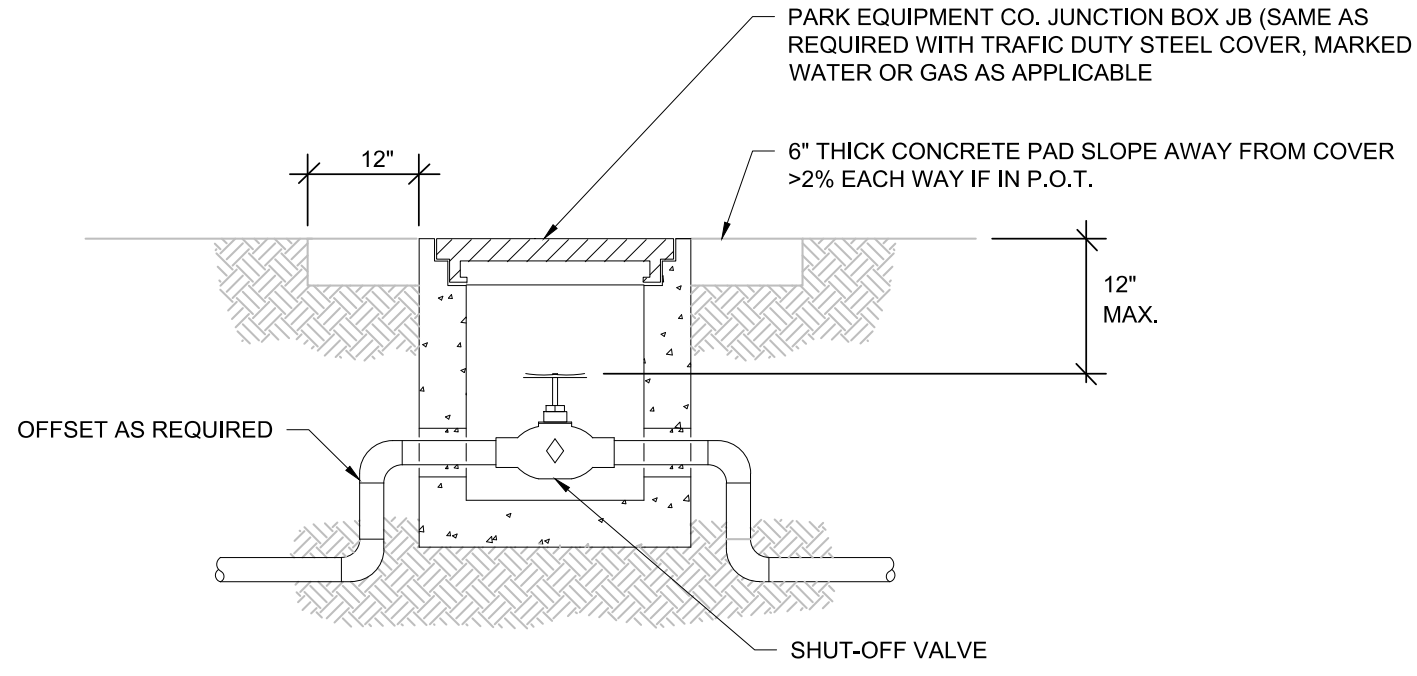
PROVIDE WCO AT BASE OF RAIN-LEADER DOWNSPOUTS AND SOIL STACKS. PROVIDE WCO WHERE SHOWN ON PLAN, AND ON SANITARY WASTE BRANCHES LONGER THAN FIVE FEET NOT SERVED WITH A FLOOR CLEANOUT. LOCATE ABOVE FIXTURE FLOOD RIM WITHIN FOUR FEET OF FLOOR. CONSULT LOCAL CODES AND OFFICIALS FOR OTHER WCO REQUIREMENTS.

1 WALL CLEANOUT
SCALE: N.T.S.

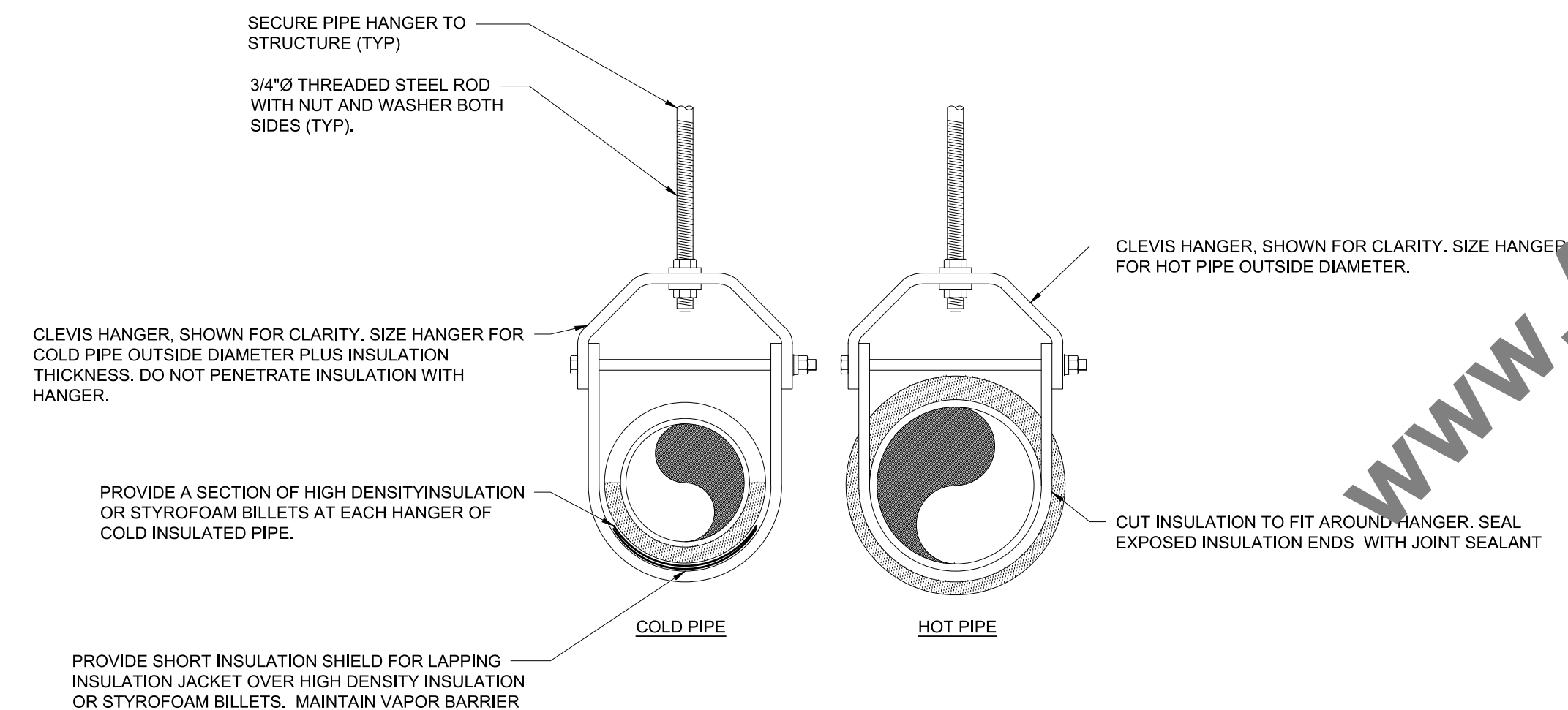


VERIFY REQUIREMENTS FOR METERING AND PIPING WITH GAS COMPANY. GAS COMPANY SHALL EXCAVATE, BACKFILL, AND REPAIR PAVING AND SOD FOR GAS SERVICE LINE INSTALLATION FROM MAIN TO BUILDING. PLUMBING CONTRACTOR TO PAY ALL GAS COMPANY FEES FOR THIS INSTALLATION. USE WELDED OR SCREWED PIPE AND FITTINGS PER SPECIFICATIONS, PAINT EXPOSED METAL GAS PIPE, FITTINGS AND ITEMS TO MATCH BUILDING.

2 GAS SERVICE
SCALE: N.T.S.



3 YARD BOX
SCALE: N.T.S.



4 INSULATED PIPE HANGER
SCALE: N.T.S.

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DRAWING NO:
P502